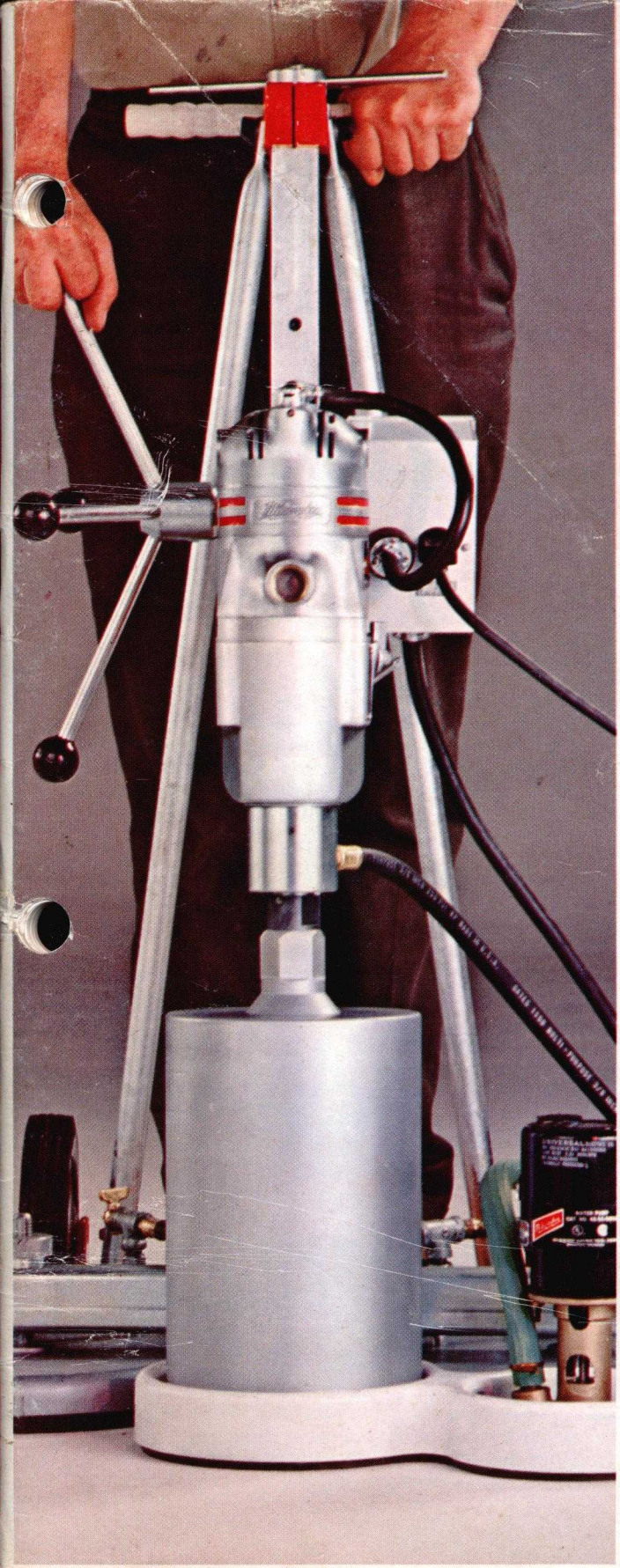


Milwaukee

HEAVY-DUTY TOOLS

FOR CONTRACTORS AND INDUSTRY

CATALOG

472

Robert R. Sloch

HEAVY-DUTY TOOLS

Feature **HIGHEST QUALITY MATERIALS AND WORKMANSHIP**

TESTED-LISTED

MILWAUKEE Heavy-Duty Tools bearing monograms of Underwriters Laboratories, Inc., or Canadian Standards Association are listed by their laboratories for industrial use.

SAFETY SEAL

The Milwaukee Electric Tool Corporation is a member of the Power Tool Institute and is authorized to display that organizations safety seal. Milwaukee assures its users of its concern for their safety as well as the safe application of its products by supporting and adhering to the principles for which the Safety Seal stands.

1 That the manufacturer's power tools, including the particular tool associated with the Seal, are produced in accordance with applicable Standards for Safety of Underwriters' Laboratories and American National Standards (ANSI).

2 That compliance with applicable safety standards is assured by independent inspection and testing conducted by Underwriters' Laboratories (UL).

3 That every motorized tool is inspected under power.

4 That every tool has with it adequate instructions and a list of safety rules for the protection of the user.

5 That the tool manufacturer is a member of the Power Tool Institute and is a sponsor of the Institute's Consumer Safety Education Program.

ADVANCED ENGINEERING

MILWAUKEE engineers are continuously engaged in the design and redesign of new and proven power tools to provide easier operation, longer tool life and improved performance. Newly developed materials and mechanisms are extensively tested and only those which meet MILWAUKEE'S heavy-duty standards are employed to bring you the highest quality professional power tools on the market.

MILWAUKEE BUILT MOTORS

MILWAUKEE motors are the finest power tool motors available today. Built in our own plant from the highest quality raw materials, they are the result of over 40 years of design research and innovation. Every field coil used in a MILWAUKEE motor is insulated in a special process to provide greater rigidity, additional protection against shorting and better insulation. Armatures with high temperature windings are impregnated with a high heat resistant resin which solidly fills the tightest and deepest windings to protect against moisture, abrasive dust and grounding. Lead wires, individually welded to commutator bars, withstand high temperatures without motor damage and rotor assemblies are dynamically balanced to assure vibration free operation and high efficiency.

MACHINED PARTS

All mechanical parts are carefully processed from selected high quality materials to meet MILWAUKEE'S strict quality standards. Precision heat-treated alloy gears, shafts and spindles in conjunction with sturdy aluminum castings provide smooth, quiet and reliable power transmission for longer service life.

QUALITY CONTROL

In addition to continuous quality checks throughout manufacture and assembly, all electrical, mechanical and physical features are thoroughly rechecked in operation before packaging.

GUARANTEE

Every MILWAUKEE Tool is thoroughly inspected and tested before leaving the factory. It is guaranteed against defective workmanship and materials. Should any trouble develop, return the COMPLETE tool prepaid to the Factory, Branch or nearest Authorized MILWAUKEE Service Station. If inspection shows trouble is caused by defective workmanship or material, all repairs will be made without charge and returned transportation prepaid. The guarantee does not apply where: Repairs or attempted repairs have been made by persons other than Factory, Branch or Authorized Service Station personnel; repairs are due to normal wear; the tool has been abused or in an accident; misuse is evident — caused by overloading the tool beyond its rated capacity, use of the tool after partial failure or use with improper accessories. No other guarantee, written or verbal, is authorized.

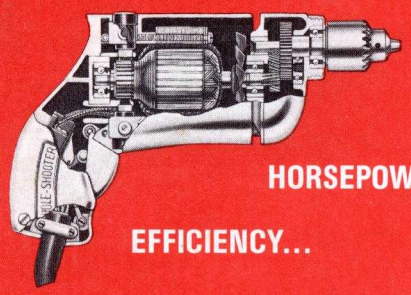
GENERAL INFORMATION

Unless otherwise indicated, all tools have universal motors operating on single-phase current (0-60 cycles) of the specified voltage. Tools have 3-wire conductor cords with strain relievers securely clamped to prevent breaking or straining connections. Cords have unbreakable three prong rubber safety type plugs. The MILWAUKEE ELECTRIC TOOL CORPORATION reserves the right to make any changes in or improvements on its products without incurring any liability or obligation whatever and without being required to make any corresponding changes or improvements in products previously manufactured or sold.

AUTHORIZED SALES

MILWAUKEE Electric Tools are sold only through Authorized Distributors with experienced personnel to assist you in selecting the proper tools for your specific requirements. You derive a real advantage in buying from your MILWAUKEE Distributor. He not only maintains well balanced inventories of tools for immediate shipment, but places at your disposal the services of his trained and experienced personnel to advise you on special product applications.

AMPS...



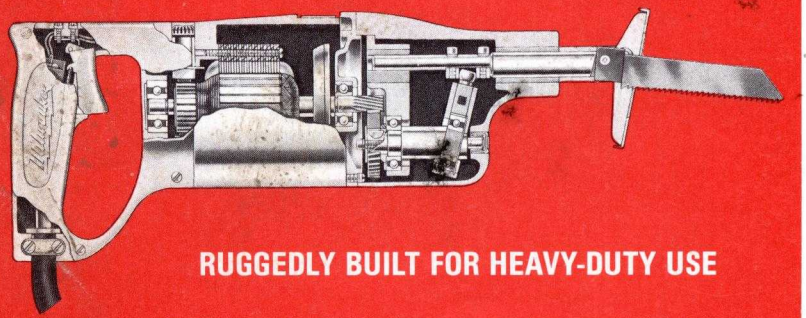
HORSEPOWER...

EFFICIENCY...

An Electric Tool is only as good as its motor. No matter what other desirable features any tool may have, the motor is the most vital part . . . the heart of the tool.

All motors draw more or less amperes depending upon the various loads applied. The motor converts electrical energy to mechanical energy. If the amount of loss is small in conversion, the motor's efficiency becomes greater, resulting in more output at the working end of the tool.

The ampere rating of the motor on the MILWAUKEE nameplate is based upon continuous heavy-duty operation to provide maximum efficiency at full rated load. MILWAUKEE motors are conservatively rated and have the reserve horsepower for extra heavy-duty jobs.



RUGGEDLY BUILT FOR HEAVY-DUTY USE

INSTRUCTIONS

An instruction booklet is furnished with each MILWAUKEE Electric Tool. Please read it carefully for best care and performance. IMPORTANT — Pay particular attention to all safety precautionary measures before operating any power tool.

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HEAVY-DUTY HOLE-SHOOTERS

With Powerful Milwaukee Built Motors For Continuous Industrial Use

A

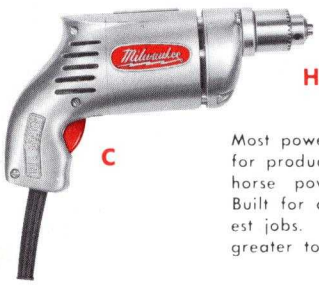
1/4" HOLE-SHOOTER
PISTOL GRIP

Best 1/4" heavy-duty drill value. Lightweight, compact. Lifetime lubricated ball bearings — single gear reduction. Especially designed for general maintenance. Comfortable pistol grip handle of durable thermoplastic designed to withstand the roughest service use.

B

1/4" HOLE-SHOOTER
TRIGGER SPEED CONTROL WITH REVERSING SWITCH

A Trigger Speed Control unit, with the same features as above, provides speeds from 0 to 2500 RPM. No center punching . . . no drill bit walking . . . drills almost everything including ceramics and glass. Reversing switch is located above trigger switch.



C

1/4" to 3/8" HOLE-SHOOTERS
IN-LINE GRIP

Most powerful Drills of this type made for production drilling . . . deliver top horse power at maximum efficiency. Built for continuous use on the toughest jobs. All have double gearing for greater torque.

D

1/4" and 3/8" HOLE-SHOOTERS
PISTOL GRIP

These drills have the same power and performance features as the In-Line grip models above but with a durable thermoplastic pistol grip handle.

E

1/4" and 3/8" HOLE-SHOOTERS
TRIGGER SPEED CONTROL WITH REVERSING SWITCH

The Trigger Speed Control models give speeds of 0 to 2000 RPM on the 1/4" Drill and 0 to 1000 on the 3/8" model. Other specifications are similar to those for the Drills above. Reversing switch is located above trigger switch.

TRIGGER SPEED CONTROL REVERSING SWITCH

Milwaukee Trigger Speed Control-Reversing switches let you drill through wood, steel, masonry, ceramic tile and practically any other material at the exact speed required for the job. The further the trigger is depressed, the faster the tool operates. Reversing Lever is conveniently located above trigger for maximum drilling versatility. Mechanical interlock prevents accidental reversing while motor is running.

Ball and Roller Bearings

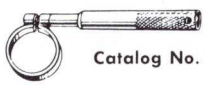
MILWAUKEE heavy-duty pistol grip Hole-Shooters are available in a wide variety of capacities, speeds and designs to meet your specific drilling and handling requirements. Available with In-Line design handles or pistol grips, they are all engineered to give dependable performance and long life, even under the most severe operating conditions. In addition to constant speed models, three models are also available to provide complete speed control from zero to the tool's maximum RPM. Only the highest quality materials are used in the manufacture of these drills. All have heat-treated nickel alloy steel gears and hardened shafts, heavy-duty MILWAUKEE-built motors, lockable trigger switches and Jacobs industrial, geared, key-type chucks with rubber-flex key holders.

SPECIFICATIONS

Group	Catalog No.	Cap. (In.) in Steel	Volts	Spindle Dia. and Thread	Speed rpm No Load	Gear Train	Lgth. (In.)	Net Wgt. (Lbs.)	Shp. Wgt. (Lbs.)
A	0101	1/4	115	3/8-24	2000	Sngl.	8 3/8	3 1/2	6
B	0102-1	1/4	115AC Only	#1 J.T.*	0 To 2500	Sngl.	8 3/8	3 1/2	6
C	0120	1/4	115	3/8-24	2000	Dbl.	9 1/2	3 3/4	6
	0140	1/4			3500				
	0160 ★	1/4			5000				
	0180	1/4			2500				
	0190	1/4			1700				
	0200	5/16			1000		10		
	0220	3/8			650		10 1/4	4	7
D	0121	1/4	115	3/8-24	2000	Dbl.	8 3/4	3 3/4	6
	0181	1/4			2500				
	0191	1/4			1700				
	0221	3/8			650		9 1/2	4	7
E	0122-1	1/4	115AC Only	#1 J.T.*	0 To 2000	Dbl.	8 3/4	3 3/4	6
	0222-1	3/8		#2 J.T.*	0 To 1000		9 1/2	4	7

★ Recommended only for drilling skin aluminum and other non-ferrous metals.
* Jacobs Taper Spindle.

AUXILIARY SIDE HANDLE
For Drills Listed Above.



Catalog No. 49-15-0100

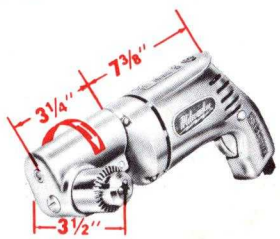
Type "A" Grease

1/2 lb. can **Catalog No. 49-08-0500**
1 lb. can **Catalog No. 49-08-0800**

RIGHT ANGLE DRIVE UNIT
One to One Gear Ratio

Compact and closely coupled, the Right Angle Unit is available only for Drills in groups C and D except Catalog Nos. 0140, 0160. It is ideal for drilling in tight spots in cabinet making, carpentry, automotive, heating, ventilating and many other industries.

Catalog No. 2890
chuck not included
Net Wt. 1 lb.



Chuck, removed from Drill, is threaded on spindle of angle unit which couples to Drill. It can be locked in any position within 360°.

STEEL CARRYING CASE
For drills in group A through E above
Catalog No. 48-55-0710

HEAVY-DUTY HOLE-SHOOTERS

D-HANDLE DRILLS

Ball and Roller Bearings

1/4" • 5/16" • 3/8" • 1/2" Capacities
Geared for Continuous Production Drilling

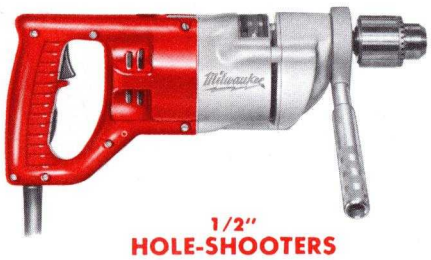
These D-Handle Drills with powerful MILWAUKEE motors are built for rugged performance and many years of useful service. They are known for their ability to stand up under full load at their maximum rating and for handling a wide variety of applications. Models with multiple gear reduction have greater torque output . . . gears transmit smooth, stall-proof power. The switch for models with reversible motors is conveniently located below the trigger switch. All have heat-treated, helical-cut alloy steel gears and hardened shafts, lockable trigger switch, Jacobs industrial, geared key-type chuck, rubber flex key holder, and a 360° adjustable side handle.

1/4" to 3/8" HOLE-SHOOTERS — **F**

Four powerful Drills designed for the toughest jobs . . . with speeds and capacities to meet almost any production requirement. All have double gear reduction.

1/2" HOLE-SHOOTERS — **G**

Produce high torque and maximum power. The 560 rpm Drill has double gearing. The 450 and 320 rpm Drills have greater torque with triple gearing for boring large holes in wood.



1/2" HOLE-SHOOTERS — **H**

Two models available with comfortable, durable thermoplastic handles. The 1105-1 produces high torque with triple reduction gearing and no load speed of 550 rpm. No. 1250-1 with powerful 6 amp motor, double gear reduction and 950 rpm is engineered for fast production drilling. Both have reversible motors.

SPECIFICATIONS

Group	Catalog No.	Cap. (In.) in Steel	Volts	Spindle Dia. and Thread	Speed No Load (RPM)	Gear Train	Lgth. (ins.)	Net Wgt. (Lbs.)	Shp. Wgt. (Lbs.)
F	0800	1/4	115	1/2"-20	2000	Dbl.	12 1/2	5 1/2	9
	0850	5/16	115	1/2"-20	1400	Dbl.	12 1/2	5 1/2	9
	0870	3/8	115	1/2"-20	1000	Dbl.	13	6 1/4	10
	0890	3/8	115	1/2"-20	850	Dbl.	13	6 1/4	10
G	1000 1000-1 Rev.	1/2	115	1/2"-20	560	Dbl.	13 13 1/4	6 1/2	10
	1100 1100-1 Rev.	1/2	115	1/2"-20	450	Trpl.	13 1/4 13 1/4	6 3/4	10
	1200 1200-1 Rev.	1/2	115	1/2"-20	320	Trpl.	13 1/4 13 1/4	6 3/4	10
H	1105-1 Rev.	1/2	115	1/2"-20	550	Trpl.	14 1/4	6 3/4	10
	1250-1 Rev.	★			950	Dbl.		6 1/2	

NOTE: Abbreviation "Rev." following Catalog No. indicates reversing motor.
★ 3/8" capacity with 1/2" chuck for fast wood boring.

AUXILIARY SIDE HANDLE
Catalog No. 49-15-0200

Same as furnished with above drills

Type "A" Grease
1/2 LB. CAN **Catalog No. 49-08-0500**
1 LB. CAN **Catalog No. 49-08-0800**

See next page for Right Angle Drive Unit and Right Angle Drill Kits.

2-SPEED HOLE HAWG

Ball and Roller Bearings

3/4 HP

Only 10 1/2 lbs.

I

WITH REVERSING MOTOR

- **Compact design for drilling between studs and joists.**
- **Power and torque to handle up to 4 5/8" Selfeed Bits.**

The most advanced compact design for drilling between studs and joists with power and torque to handle up to 4 5/8" Selfeed bits in wood and 1/2" in steel. Only 6 3/8" from tip of chuck to back of gear case . . . 13 1/2" high and 4 5/8" wide. Two-speed gear shift . . . 1200 rpm for small holes and 300 rpm for large holes. Three position spade handle and two position pipe handle for good leverage in any position. A tough thermoplastic handle, with high impact strength, is unaffected by extreme temperatures.

SPECIFICATIONS

115 Volts

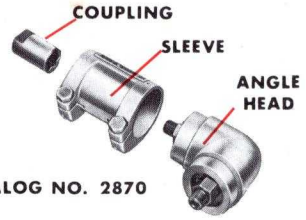
Group	Catalog No.	Speed	No Load RPM	Capacity in Wood	Capacity in Steel	Spindle Dia. and Thread	Gear Train	Net Wgt. lbs.	Shp. Wgt. lbs.
I	1675-1 Rev.	High	1200	1 3/8"	5/16"	5/8"-16	Trpl.	10 1/2	16
		Low	300	4 5/8"	1/2"				
	1676-1 Rev.	Same as above but with steel carrying case							24

STEEL CARRYING CASE **Catalog No. 48-55-0110** (When ordered separately)

Type "C" Grease **1 lb. can Catalog No. 49-08-1000**

RIGHT ANGLE DRIVE UNIT

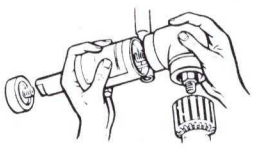
FOR CLOSE QUARTER DRILLING



CATALOG NO. 2870

½" DRILL WITH RIGHT ANGLE DRIVE

Head and handle swivel 360° and can be locked tight in any position.



Chuck transferred from drill to LOW spindle of right angle unit reduces drills normal speed by ⅓ and increases drilling torque by 50%.

Chuck transferred to opposite spindle of right angle unit increases speed by 50% for small hole drilling.

Used with D-Handle Drills Described on Preceding Page

The MILWAUKEE Right Angle Drive Unit is used extensively for drilling between joists, studding, in tight corners or in close quarters on machinery equipment. It provides two additional drilling speeds, higher and lower than the original speed of the drill giving it versatility for a number of applications . . . high speed for small hole drilling . . . low speed for large diameter wood boring where greater torque is required.

RIGHT ANGLE DRIVE UNIT

Catalog No. 2870 For Drills with non-reversing motors. Drill or chuck not included. Net wgt. 2 lbs. Shp. Wgt. 3 lbs.

REVERSING RIGHT ANGLE DRIVE

Catalog No. 2870-1 For Drills with reversing motors.

Ball and Roller Bearings

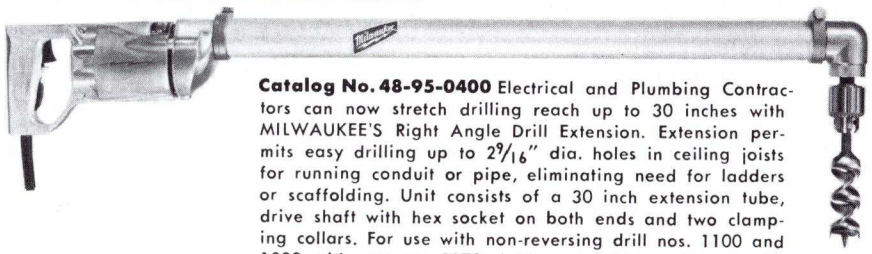
CHOICE OF THREE DRILLING SPEEDS

Fits Drills Catalog No.	RPM Drill Only	Drill with RAD Unit	
		RPM Low Side	RPM High Side
0800	2000	1300	3000
0850	1400	900	2100
0870	1000	650	1500
0890	850	570	1275
1000 1000-1 Rev.*	560	375	840
1100* 1100-1 Rev.*	450	300	675
1105-1 Rev.*	550	365	825
1200* 1200-1 Rev.*	320	215	480
1250-1 Rev.*	950	630	1425

NOTE: Abbreviation "Rev." following Catalog No. indicates reversing motor.

***Catalog No. 48-95-0400** Extension is adaptable to these Reversing & Non-Reversing drills.

RIGHT ANGLE DRILL EXTENSION



Catalog No. 48-95-0400 Electrical and Plumbing Contractors can now stretch drilling reach up to 30 inches with MILWAUKEE'S Right Angle Drill Extension. Extension permits easy drilling up to 2 9/16" dia. holes in ceiling joists for running conduit or pipe, eliminating need for ladders or scaffolding. Unit consists of a 30 inch extension tube, drive shaft with hex socket on both ends and two clamping collars. For use with non-reversing drill nos. 1100 and 1200 with cat. no. 2870 right angle drive unit and with reversing model drill nos. 1000-1, 1100-1, 1105-1, 1200-1 and 1250-1 with cat. no. 2870-1 right angle drive unit. Weighs only 1½ Lbs. Order right angle drive separately.

RIGHT ANGLE DRILL KITS

FOR ELECTRICIANS • PLUMBERS • MAINTENANCE MEN

CATALOG NOS. 3000, 3100 AND 3200

CATALOG NO. 3105-1

ELECTRICIAN'S KIT

CATALOG NO. 3000 Kit contains No. 1000 heavy-duty ½" Drill, No. 2870 Right Angle Drive, ¾" bit, wrench, chuck remover bar, side handle and steel carrying case.

Catalog No. 3000-1 Same as above except with Cat. No. 1000-1 Heavy-Duty ½" Drill and Cat. No. 2870-1 Right Angle Drive.

PLUMBER'S KIT

CATALOG NO. 3100 Kit contains No. 1100 heavy duty ½" Drill, No. 2870 Right Angle Drive, 1⅛" Auger bit, 2 9/16" Selfeed bit, wrench, side handle, chuck remover bar and steel carrying case.

Catalog No. 3100-1 Same as above except with Cat. No. 1100-1 Heavy-Duty ½" Drill and Cat. No. 2870-1 Right Angle Drive.

CATALOG NO. 3200 Same as above except with No. 1200 heavy-duty ½" Drill with slower speed and greater torque and No. 2870 Right Angle Drive.

Catalog No. 3200-1 Same as above except with Cat. No. 1200-1 Heavy-Duty ½" Drill and Cat. No. 2870-1 Right Angle Drive.

Catalog No. 3105-1 Kit contains No. 1105-1 heavy-duty ½" drill with durable thermoplastic handle, No. 2870-1 Right Angle Drive, 1⅛" Auger Bit, 2 9/16" Selfeed Bit, Chuck remover bar, side handle, 9/16" open end wrench and steel carrying case.

NOTE

See preceding page for specifications on ½" Hole-Shooters included in these kits. Available speeds are given in the table above.

Kit Catalog No.	With Drill	Shp. Wt. (lbs.)
3000	1000	21
3000-1 Rev.	1000-1	21
3100	1100	25
3100-1 Rev.	1100-1	25
3105-1 Rev.	1105-1	25
3200	1200	25
3200-1 Rev.	1200-1	25

NOTE: Abbreviation "Rev." following Catalog No. indicates reversing motor.

Steel Carrying Case
(when ordered separately)
For D-Handle Right Angle Drills
Catalog No. 48-55-0085

Type "A" Grease

½ lb. can
Catalog No. 49-08-0500

1 lb. can
Catalog No. 49-08-0800

SUPER HOLE-SHOOTERS

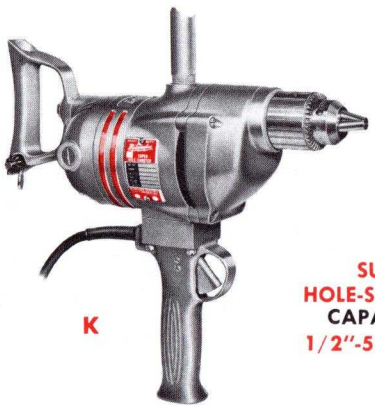
Large Capacity Drills with Maximum Power for Continuous Performance

Ball and Roller Bearings

J

1/2" COMPACT HOLE-SHOOTERS

Compact, well balanced ½" production Drills deliver ⅔ horsepower at the chuck and are designed for constant use . . . ideal for hole saw drilling. Available in double or triple gear reduction. Pipe and spade handles removable for close quarter drilling. All ball bearings . . . Jacobs industrial key chucks . . . lockable trigger-switch.



K

SUPER HOLE-SHOOTERS CAPACITIES 1/2"-5/8"-3/4"

Perfectly balanced — mechanically and electrically. Built to handle a wide variety of drilling jobs. Smooth, powerful, double or triple reduction helical gearing. Spade and pipe handle removable. Furnished with heavy-duty industrial chuck.

Ruggedly built and of simple functional design, these Milwaukee Hole-Shooters have the reserve power for the toughest drilling jobs. Gear drives are special helical-cut, chrome-nickel steel, heat treated to assure quiet performance and high torque with minimum wear. Drive shafts run smoothly on self-lubricating ball and roller bearings.

SPECIFICATIONS

Unless otherwise specified all drills have Jacobs Industrial, geared, key-type chucks.

Group	Catalog No.	Cap. (In.) in Steel	Volts	Spindle Dia. and Thread	Speed rpm No Load	Gear Train	Lgth. (In.)	Net Wgt. (Lbs.)	Shp. Wgt. (Lbs.)
J	1600 1600-1 Rev.	½	115 115	½"-20 ⅝"-16	600	Dbl.	12¼	9½	13
	1620-1 Rev.	⅜ w/ ½ Chuck	115	⅝"-16	† 900	Dbl.	12¼	9½	13
	1650 1650-1 Rev.	½	115 115	½"-20 ⅝"-16	450	Trpl.	12¼	9½	13
K	1700 1700-1 Rev.	½	115 115	⅝"-16 #6J.T.*	600	Dbl.	16	14¾	19 21
	1750 1750-1 Rev.	⅝	115 115	⅝"-16 #3J.T.*	525	Trpl.	16½	15¾	20 22
	1850 1850-1 Rev.	¾	115 115	⅝"-16 #3J.T.*	400	Trpl.	16½	16¾	20 22
L	2400-1 Rev.	1¼	115	•	250	Trpl.	16¾	21½	26

"Rev." after Catalog No. indicates reversing type motor. * Jacobs Taper Spindle.
†For fast, deep hole drilling with auger bits • With No. 3 Internal Morse Taper Socket.

L

1-1/4" CAPACITY SUPER HOLE-SHOOTER

MILWAUKEE'S largest and most powerful Drill. Extra long switch handle and pipe handle afford maximum leverage for drilling or reaming large holes. Triple reduction, helical gearing transmits tremendous torque. Furnished with No. 3 internal Morse Taper Socket.

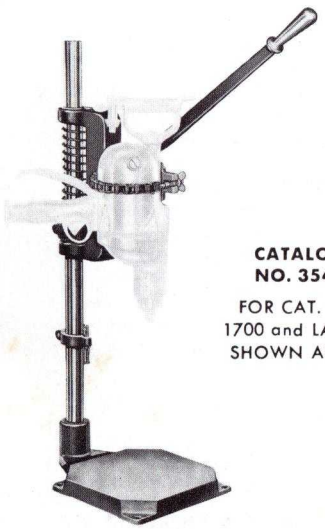
Type "A" Grease

½ lb. can **Catalog No. 49-08-0500**
1 lb. can **Catalog No. 49-08-0800**

DRILL STANDS

FOR MILWAUKEE HOLE-SHOOTERS

Your Milwaukee Electric Drill clamps quickly into a Milwaukee Drill Stand to make a powerful and accurate drill press. It provides the leverage for steady, smooth feed. Wide opening between chuck and base accommodates bulky work. An adjustable vertical feed travel can be set for production work. Holes in base for bolting securely to bench.



CATALOG NO. 3540

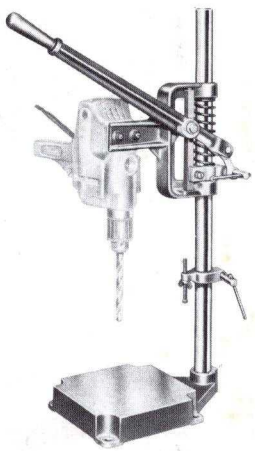
FOR CAT. NO. 1700 and LARGER SHOWN ABOVE

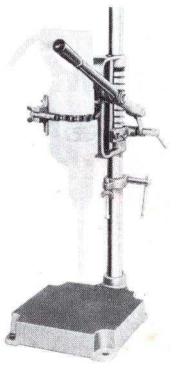
SPECIFICATIONS

Catalog No.	3500	3520	3540
Height of Post	24"	29½"	36"
Max. Feed	3½"	3½"	5½"
Size of Base	8" x 8"	8" x 8"	10" x 10"
Chuck to Base—Max.	13"	16"	17½"
Chuck to Post	5¼"	6⅜"	6½"
Wgt. less Drill	21 lbs.	23 lbs.	33 lbs.
Ship. Weight	25 lbs.	25 lbs.	45 lbs.

CATALOG NO. 3520

FOR 1600 SERIES DRILLS LISTED AT TOP OF PAGE





CATALOG NO. 3500

FOR D-HANDLE DRILLS LISTED ON PAGE 5

12 VOLT BATTERY POWERED TOOLS

UNLIMITED 12 VOLT SOURCES • USE ANYWHERE

V-12 LINE

1/4" and 3/8" PISTOL DRILLS

FOR 12 VOLT OPERATION ONLY

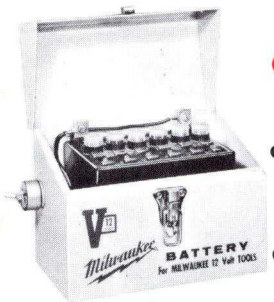
CATALOG No. 0125 1/4" DRILL
CATALOG No. 0225 3/8" DRILL

Designed for 12 volt operation and continuous heavy-duty use, these two In-Line Pistol Drills deliver top horsepower at maximum efficiency. Both Drills have ball and roller bearings, heat-treated nickel alloy-steel gears, double gear reduction, hardened shafts and lockable trigger switch. The 1/4" Drill has a no load speed of 1750 RPM and the 3/8" Drill, 600 RPM. Standard equipment includes Jacobs industrial, geared, key-type chuck and rubber-flex key holder. Net weight 3¾ lbs. Shipping weight 6 lbs.

Type "A" Grease

½ lb. can **Catalog No. 49-08-0500**
1 lb. can **Catalog No. 49-08-0800**

BATTERY and CARRYING CASE



BATTERY
Cat. No. 48-11-0050

CARRYING CASE
Cat. No. 48-55-0040

The 12 volt storage battery has a rated capacity of 32 amp. hours. Can be recharged over 400 times. Battery carrying case is wired with outlet for plug-in connection and is used with MILWAUKEE or any 12 volt battery up to 5¼" wide, 7¾" high and 9" long.

When ordering tools without the MILWAUKEE Battery carrying case, the 6 foot cord with battery clips is required. Cat. No. 48-76-0060.

CADMIUM BELT BATTERY

For use with Pistol Drills only.

For maximum portability, a 10 volt, 4 amp. hr. rated, Nickel-Cadmium Battery is available for use with MILWAUKEE 12 Volt Pistol Drills. Sealed unit clips to belt. Especially suited for high ladder or pole work. Can be recharged over 400 times. Weighs only 3¾ lbs. 6½" high x 3" wide.

SHOCKPROOF

Milwaukee Battery Powered Tools can be used anywhere. Carry your power source with you, right to the spot where you're working. Generators and lengthy runs of extension cords are no longer required. The tools have 12 volt motors for use with any 12 volt AC or DC source. V-12 tools are completely shockproof and can be used in wet places . . . even when standing in water . . . no grounding is necessary. Heavy-Duty tools require a large supply of dependable electric power for continuous operation over extended periods of time. A 12 volt storage battery provides this source for reliability . . . economy . . . more usable power. The degree of battery charge is easily checked and the battery can be fully charged overnight.

12 VOLT VERSATILITY

There are three 12 volt power sources for V-12 Tools. **1.** MILWAUKEE 12 volt battery and steel carrying case with a built-in outlet for instant operation. **2.** Any 12 volt battery in automobiles, trucks, tractors, emergency vehicles, boats and mowers. **3.** MILWAUKEE Transformer and Battery Charger converts 115 volt AC service for safe unlimited 12 volt power — also charges 12 volt batteries.

6 FT. CORD with BATTERY CLIPS

Cat. No. 48-76-0060

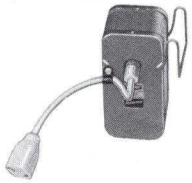
For connecting V-12 tools to 12 volt batteries in motor vehicles, boats, mowers, etc. Two wire—10 gauge, oil resistant, yellow flexible cord with 2 battery clips and female connection.

25 FT. EXTENSION CORD

Cat. No. 48-76-0050

Can be used with these MILWAUKEE accessories: battery case, cord with battery clips or direct to transformer. Two wire—10 gauge, oil resistant, yellow flexible cord with male and female connections.

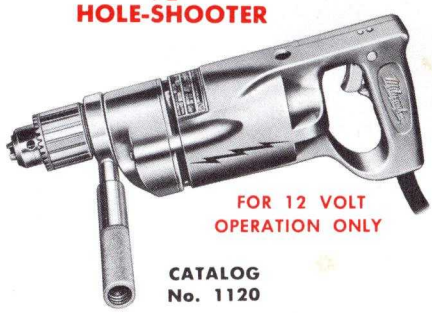
BELT BATTERY and CORD



10 Volt Nickel-Cadmium Battery (less cord). **Catalog No. 48-11-0060**

12" Adapter Cord furnished separately. **Catalog No. 48-76-0090**

½" HOLE-SHOOTER



FOR 12 VOLT OPERATION ONLY

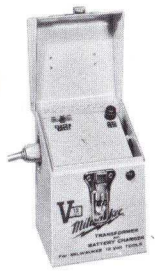
CATALOG No. 1120

This 12 volt, ½" D-Handle Drill is ruggedly built for heavy-duty performance and for a wide variety of applications. Triple gear reduction transmits high torque for smooth, stall-proof power. The Drill has heat-treated, helical-cut alloy steel gears, hardened shafts, lockable trigger switch and ball and roller bearings. The no load speed is 360 RPM. Standard equipment includes Jacobs industrial, geared, key-type chuck, rubber-flex key holder and adjustable side handle. Net weight 6¾ lbs. Shipping weight 10 lbs.

Type "A" Grease

½ lb. can **Catalog No. 49-08-0500**
1 lb. can **Catalog No. 49-08-0800**

TRANSFORMER and BATTERY CHARGER



CATALOG NO.
48-55-0035

Converts 115V AC line voltage for Battery Powered Tools. Also recharges 12-volt batteries. Includes 6 foot cord for 115 line voltage and 2 foot 12 volt cord used between battery charger and outlet on battery carrying case. For charging other 12 volt batteries the 6 foot cord with battery clips is required.

CORDS FOR ABOVE
when ordered separately

NO. 48-76-0080 6' for 115 v.
NO. 48-76-0070 2' for 12 v.

CADMIUM BATTERY CHARGER

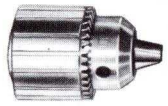
For 10 Volt Battery. 14 hour fast charge and 30 hour slow charge. Plug into 115 Volt outlet and connect to battery. **Cat. No. 48-59-0050**

Accessories for Battery Powered Tools, such as Right Angle Unit, Selfeed Bits, Auger Bits, Flat Boring Bits, are the same as for 115 Volt tools.

DRILL ACCESSORIES

HIGHEST QUALITY FOR MAXIMUM EFFICIENCY

CHUCKS



JACOBS INDUSTRIAL CHUCKS Chuck Key included			CHUCK KEYS
Catalog No.	Cap.	Thread Size	Catalog No.
48-66-0260	1/4"	3/8"-24	48-66-3200
48-66-0300	1/4"	1/2"-20	48-66-3200
48-66-0500	5/16"	3/8"-24	48-66-3240
48-66-0540	5/16"	1/2"-20	48-66-3240
48-66-0800	3/8"	3/8"-24	48-66-3080
48-66-0840	3/8"	1/2"-20	48-66-3280
48-66-0880	3/8"	5/8"-16	48-66-3280
48-66-1280	1/2"	1/2"-20	48-66-3280
48-66-1440	1/2"	5/8"-16	48-66-3120
48-66-1640	5/8"	5/8"-16	48-66-3120
48-66-2040	3/4"	5/8"-16	48-66-3160
48-66-2050	3/4"	3/4"-16	48-66-3160
§ JACOBS CHUCKS for REVERSING DRILLS			
48-66-0230•	1/4"	#1 Taper	48-66-3200
48-66-0240•	3/8"	#2 Taper	48-66-3080
48-66-1360	1/2"	1/2"-20	48-66-3280
48-66-1380	1/2"	5/8"-16	48-66-3280
48-66-1480	1/2"	#6 Taper	48-66-3120
48-66-1680	5/8"	#3 Taper	48-66-3120
48-66-2080	3/4"	#3 Taper	48-66-3160

§ Chucks for other drills with reversing motors . . . specify model and serial numbers.

• Chuck Removal Wedges required (Set of 2)
For 1/4" Drill — #1 Jacobs Taper
Catalog No. 49-91-0010
For 3/8" Drill — #2 Jacobs Taper
Catalog No. 49-91-0020

MORSE TAPER SOCKETS

★MORSE TAPER SOCKETS Drift Key included			DRIFT KEYS
49-66-0600	#2MT	5/8"-16	48-86-0050
49-66-0700	#3MT	5/8"-16	48-86-0070

★ See page 7 for sizes required for specific models.

EXTENSION CORDS

For all electric tools. Oil resistant, Heavy-Duty Neoprene cords with plugs molded on and with duplex connectors.

Catalog No.	Lgth.	Type	Ga.
48-76-0100	25'	SO	14
48-76-0110	50'	SO	14
48-76-0120	50'	SJO	16

CARBIDE-TIP MASONRY BITS

SPECIAL FEATURES

- **Alloy Steel Shank for Strength and Durability**
- **Shallow Precision Machined Oval Flutes Prevent Dust Packing**
- **Carbide Tip . . . The Hardest Metal Made . . . Brazed to Alloy Steel Bodies**

Drills masonry, brick, stone, plaster, slate. Wide, spiral flutes lift dust out of hole. Bit cuts at maximum efficiency without clogging. Produces clean, accurately sized holes fast. Carbide tip resists dulling. Bits may be resharpened on bench grinder using silicon carbide grinding wheel. Bits in sizes from 1" through 1 1/2" are of two piece design. Shank is 1/2" hex dia. with 1/2"-13 thread . . . nut serves as bit shoulder.

Black Oxide Finish

Dia.	Cat. No.	Shank Dia.	Overall Bit Length
1/8"	48-87-0120	1/8"	3"
5/32"	48-87-0150	5/32"	3"
11/64"	48-87-0170	11/64"	3"
3/16"	48-87-0180	3/16"	3"
7/32"	48-87-0210	1/4"	3"
1/4"	48-87-0250	1/4"	4"
9/32"	48-87-0280	1/4"	4"
5/16"	48-87-0310	1/4"	4"
3/8"	48-87-0370	1/4"	4"
7/16"	48-87-0430	1/4"	6"
1/2"	48-87-0500	3/8"	6"
9/16"	48-87-0560	1/2"	6"
5/8"	48-87-0620	1/2"	6"
11/16"	48-87-0680	1/2"	6"
3/4"	48-87-0750	1/2"	6"
7/8"	48-87-0870	1/2"	6"
1"	48-87-1000	1/2"	10"
1 1/8"	48-87-1120	1/2"	10"
1 1/4"	48-87-1250	1/2"	10"
1 1/2"	48-87-1500	1/2"	10"
EXTRA LENGTH BITS			
1/4"	48-87-0251	1/4"	12"
1/2"	48-87-0502	3/8"	18"
9/16"	48-87-0562	1/2"	18"
5/8"	48-87-0622	1/2"	18"
3/4"	48-87-0752	1/2"	18"
7/8"	48-87-0872	1/2"	18"

EXTRA LENGTH CARBIDE-TIP MASONRY BITS

Narrow Lands and Fast Spiral for Rapid Dust Removal

EXTENSION SHANKS

For Masonry Bits

1/2"-13 Thread — **1/2" Hex Shank**

For Two Piece Design Bits From 1" thru 1 1/2" Dia. Only

Length	Catalog No.
6"	48-28-8060
12"	48-28-8070
18"	48-28-8080
24"	48-28-8090
30"	48-28-8100
36"	48-28-8110

SCREWDRIVING ACCESSORIES

For Use With Trigger Speed Control Drills Nos. 0122-1 and 0222-1 (See Page 4)

Bit and Finder 3 1/2" long with 1/4" hex shank for slotted head screws

Screw Size	Catalog No.
6F-8R	48-30-2600
8F-10R	48-30-2625
10F-12R	48-30-2650
12F-14R	48-30-2675
14F-16R	48-30-2700

2" long Bits with 1/4" hex shanks for driving #2 and #3 Phillips screws

Size	Catalog No.
Phillips No. 2	48-30-1520
Phillips No. 3	48-30-1500

MISCELLANEOUS ACCESSORIES

LEATHER HOLSTER

FOR PISTOL DRILLS and SCREWDRIVERS

Fits belts to 3 inches wide.

CATALOG NO. 49-17-0200

CARRYING CASE FOR PISTOL DRILLS and SCREW DRIVERS

OVERALL SIZE 13" long, 6" high, 8 1/2" wide

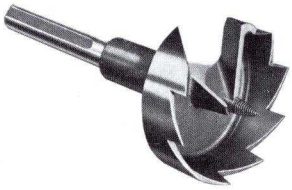
RUBBER-FLEX KEY HOLDERS

PLUG ADAPTER

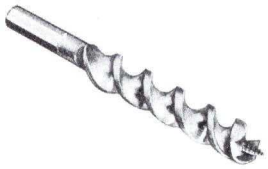
Catalog No.	Description
48-55-0710	Carrying Case (See Above)
48-55-0110	Carrying Case For Hole Hawg (1675-1)
	Rubber-Flex Key Holders
48-66-4040	For Key 48-66-(3240-3080-3280)
48-66-4080	For Key 48-66-3200
48-03-0010	Plug Adapter

DRILL ACCESSORIES

SELFEED BITS

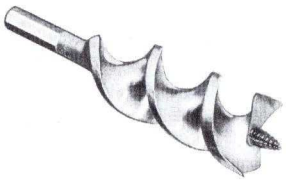


For big hole drilling in wood. For popular pipe sizes. Feed into work without pressure. 7/16" hex shanks have 3 milled flats for secure chuck grip. Side of bit tapered and beveled for easy removal from hole. Inside cutting plane shaves hole radius. Cuts clean, smooth holes. Sizes 1 3/4" and larger have reversible and replaceable double-end feed screw pilots.



Large SELFEED BITS in 3 5/8" and 4 5/8" sizes have double inside cutter blades and a larger double-end feed screw pilot. Arbors for these 2 sizes can be removed and replaced.

AUGER BITS



Sizes from 3/4" to 1 1/2" . . . All 4" twist and 6 1/2" long. 7/16" hex shanks for sure chuck grip. Precision made of special bit steel, heat treated and tempered for long life. Feed screw pilot draws bit into wood. Cutting spurs and lips stay sharp longer.

PLUMBERS' BIT KIT

A complete assortment of most commonly used MILWAUKEE Bits for BIG-HOLE drilling. Sizes include 7/8", 1 1/8", 1 1/4", 1 1/2" Auger Bits and the famous MILWAUKEE "Selfeed" Bits in 1 3/4", 2 1/8", and 2 9/16" diameters. Also 5 1/2" hex extension shank and coupling, extra double-end feed screw pilot, socket wrench and steel carrying case. Shipping Weight 8 1/2 lbs.

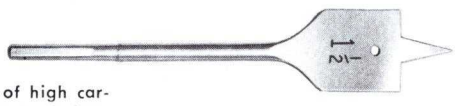
BIT KIT (complete) **Cat. No. 49-22-0060**
Carrying Case only **Cat. No. 48-55-0030**

FLAT BORING BITS

For Use With Pistol Drills Only

3 Milled Flats for Secure Chuck Grip

1/4" to 1 1/2" Diameters



Flat Boring Bits are precision made of high carbon steel for durability and long life. Bore clean holes fast at any angle in wood, plastic, plywood and formica. Drill point and cutting edges can be resharpened often.

SPECIFICATIONS

Dia.	Catalog No.	Shank Dia.	Overall Length
1/4"	48-27-0251	3/16"	6 1/8"
5/16"	48-27-0311	3/16"	6 1/8"
3/8"	48-27-0371	1/4"	6 1/8"
7/16"	48-27-0441	1/4"	6 1/8"
1/2"	48-27-0501	1/4"	6 1/8"
9/16"	48-27-0561	1/4"	6 1/8"
5/8"	48-27-0621	1/4"	6 1/8"
11/16"	48-27-0681	1/4"	6 1/8"
3/4"	48-27-0751	1/4"	6 1/8"
13/16"	48-27-0811	1/4"	6 1/8"
7/8"	48-27-0871	1/4"	6 1/8"
15/16"	48-27-0941	1/4"	6 1/8"
1"	48-27-1001	1/4"	6 1/8"
1 1/8"	48-27-1121	1/4"	6 3/4"
1 1/4"	48-27-1251	1/4"	6 3/4"
1 3/8"	48-27-1371	1/4"	6 3/4"
1 1/2"	48-27-1501	1/4"	6 3/4"

FLAT BORING BIT KIT

Contains 6 popular size flat boring bits in heavy protective plastic. Assortment includes 3/8", 1/2", 5/8", 3/4", 7/8" and 1" sizes in pockets for orderly storage and easy size selection.

CATALOG NO. 49-22-0071

SPECIFICATIONS

Catalog No.	Description	For Std. Pipe Sizes
SELFEED BITS		
48-25-1120	1 1/8" dia.	1/2"
48-25-1250	1 1/4" dia.	3/4"
48-25-1370	1 3/8" dia.	
48-25-1500	1 1/2" dia.	1"
48-25-1750	1 3/4" dia.	1"
48-25-2120	2 1/8" dia.	1 1/2"
48-25-2250	2 1/4" dia.	—
48-25-2560	2 9/16" dia.	2"
48-28-6850	Dble. Feed Screw Pilot	
49-96-0060	Socket Wrench	
LARGE SELFEED BITS		
48-25-3620	3 5/8" dia. •	3" ★
48-25-4620	4 5/8" dia. ▲	4" ★
48-07-0200	Replaceable Arbor	
48-28-6860	Dble. Feed Screw Pilot	
49-96-0070	Socket Wrench	
AUGER BITS		
48-13-0750	3/4" x 4" Twist	
48-13-0870	7/8" x 4" Twist	3/8"
48-13-1000	1" x 4" Twist	
48-13-1120	1 1/8" x4" Twist	1/2"
48-13-1250	1 1/4" x 4" Twist	3/4"
48-13-1370	1 3/8" x 4" Twist	
48-13-1500	1 1/2" x 4" Twist	1"

• For Models 1675-1, 1700 and larger.
▲ For Models 1675-1, 1750 and larger.
★ Cast Iron or Copper Pipe Size.

EXTENSION SHANKS

For Selfeed Bits and Auger Bits (1" dia. and larger) with 7/16" hex shanks.

EXTENSION **COUPLING**

	Lgth.	Catalog No.
Require Coupling 48-28-0920	5 1/2"	48-28-3112
	12"	48-28-3115
	18"	48-28-3300

ONE PIECE

No Coupling Required	18"	48-28-3400
	24"	48-28-3500

POWER SHIP AUGER BITS

Accurately machined for tough deep hole boring in wood for all types of construction. Use with 1/2" Hole-Shooters or larger. Feed screw point, one cutting edge and side lip produce fast cutting.

SPECIFICATIONS

12" Twist

Nominal Over-all Length 16" to 16 1/2"

Dia.	Catalog No.
9/16"	48-13-5560
5/8"	48-13-5620
11/16"	48-13-5680
3/4"	48-13-5750
13/16"	48-13-5810
7/8"	48-13-5870
15/16"	48-13-5930
1"	48-13-6000
1 1/16"	48-13-6010
1 1/8"	48-13-6120
1 1/4"	48-13-6250
1 3/8"	48-13-6370
1 1/2"	48-13-6500

HOLE SAWS

SHATTER-RESISTANT

MILWAUKEE Hole Saws are high production tools for sawing holes in all machineable materials. A most economical means of extending the useful range of portable drills, drill presses and lathes. High speed cutting edges welded to rigid steel bodies produce clean, accurate holes. Shatter-resistant construction makes them safe to use and provides an extra margin of durability.

9/16" to 6" Diameters

STANDARD **DEEP CUTTING**

High Speed Steel Cutting Edges 6 Teeth Per Inch

DEEP CUTTING AND STANDARD TYPES

Deep cutting Hole Saws cut to 1¾" depth. Especially suited for cutting thru 2" dressed lumber.

Standard Hole Saws cut to 1¼" depth.

Arbor not included with Hole Saw

HOLE SAW ARBORS

1/4" ROUND SHANK

Catalog No. 49-56-6950

With ½"-20 thread and ¼" pilot drill. For small Hole Saws. (See Table.)

Catalog No. 49-56-7000

With ½"-20 thread and ¼" pilot drill. For 9/16" to 1 3/16" Hole Saws. (See Table.)

QUICK CHANGE ARBORS

7/16" HEX. SHANK

Catalog No. 49-56-7055

With ⅝"-18 thread and ¼" pilot drill. For 1¼" and larger Hole Saws.

5/8" HEX. SHANK

Catalog No. 49-56-7100

With ⅝"-18 thread and ¼" pilot drill. Recommended for 4" and larger Hole Saws.

Arbors and Hole Saws are interchangeable with most other brands.

HOLE SAW KITS

STANDARD HOLE SAW KIT consists of ⅞", 1⅛", 1½", 1¾", 2", 2½" sizes; Arbors Nos. 49-56-(7000 and 7055) and steel case.
Catalog No. 49-22-4050

DEEP CUTTING HOLE SAW KIT consists of 1", 1¼", 1½", 1¾", 2¼", 3", 3⅜" sizes; Arbors Nos. 49-56-(7000 and 7055) and steel case.
Catalog No. 49-22-4060

STEEL CASE ONLY Used with either of above kits
Catalog No. 48-55-0760

ACCESSORIES

PILOT DRILLS

Catalog No. 49-56-8000

¼" High Speed Pilot Drill. For use with Hole Saw arbors.

Catalog No. 49-56-8002

¼" High Speed Pilot Drill with ¼" fluting for light gauge metals.

EXTENSION SHANKS

For 7/16" hex shank arbors . . . 1" dia. Hole Saws and larger.

COUPLING

EXTENSION

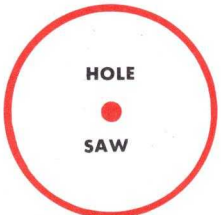
ONE PIECE

	Lgth.	Catalog No.
Require Coupling 48-28-0920	5½"	48-28-3112
	12"	48-28-3115
	18"	48-28-3300
No Coupling Required	18"	48-28-3400
	24"	48-28-3500

SPECIFICATIONS

Hole Dia. Size	Catalog No.	Use with Arbor No.	Pipe Sizes: Pipe Tap	Pipe Sizes: Pipe Entrance	For Copper Pipe Size (I.D.)
DEEP CUTTING Cut to 1¾" depth					
⅞"	49-56-0871	49-56-6950 or 49-56-7000		½"	⅝"
1"	49-56-1001				¾"
1⅛"	49-56-1121			¾"	¾"
1¼"	49-56-1251				1"
1⅜"	49-56-1371			1"	
1½"	49-56-1501				1¼"
1¾"	49-56-1751	49-56-7055 or 49-56-7100		1¼"	1½"
2"	49-56-2001			1½"	
2¼"	49-56-2251				2"
2½"	49-56-2501			2"	2"
3"	49-56-3001			2½"	2½"
3⅜"	49-56-3371				3"
4¼"	49-56-4251				4"
STANDARD Cut to 1¼" depth					
9/16"	49-56-0560	49-56-6950 or 49-56-7000			⅛"
5/8"	49-56-0620				¼"
11/16"	49-56-0680				⅜"
¾"	49-56-0750			⅜"	½"
13/16"	49-56-0810				½"
⅞"	49-56-0870		¾"	½"	⅝"
15/16"	49-56-0930				
1"	49-56-1000				¾"
1 1/16"	49-56-1060				
1⅛"	49-56-1120		1"	¾"	¾"
1 3/16"	49-56-1180				
1¼"	49-56-1250	49-56-7055 or 49-56-7100			1"
1 5/16"	49-56-1310				
1⅜"	49-56-1370			1"	
1 7/16"	49-56-1430				
1½"	49-56-1500		1¼"		1¼"
1 9/16"	49-56-1560				
1⅝"	49-56-1620				
1 11/16"	49-56-1680				
1¾"	49-56-1750		1½"	1¼"	1½"
1 13/16"	49-56-1810				
1⅞"	49-56-1870				
2"	49-56-2000			1½"	
2 1/16"	49-56-2060				
2⅛"	49-56-2120				
2¼"	49-56-2250		2"		2"
2 5/16"	49-56-2310				
2⅜"	49-56-2370				
2½"	49-56-2500			2"	2"
2 9/16"	49-56-2560				
2⅝"	49-56-2620		2½"		
2¾"	49-56-2750				
2 7/8"	49-56-2870				
3"	49-56-3000			2½"	2½"
3⅛"	49-56-3120				
3¼"	49-56-3250		3"		
3⅜"	49-56-3370				
3½"	49-56-3500				
3⅝"	49-56-3620			3"	
3¾"	49-56-3750		3½"		
3⅞"	49-56-3870				3½"
4"	49-56-4000				
4⅛"	49-56-4120			3½"	3½"
4¼"	49-56-4250		4"	3½"	4"
4⅜"	49-56-4370				
4½"	49-56-4500			4"	4"
4¾"	49-56-4750				
5"	49-56-5000				
5½"	49-56-5500				5"
6"	49-56-6000				

The comparative area of metal which must be cut away to make a 4½" dia. hole.



1.324 SQ. INS.

15.904 SQ. IN.

ELECTRO-MAGNETIC DRILL PRESSES

DRILLING • TAPPING • REAMING
IN ½" • ¾" • 1¼" CAPACITIES

For

STEEL ERECTORS BRIDGE BUILDERS
TOOL and DIE SHOPS SHIPYARDS
MILLWRIGHTS • MAINTENANCE

MILWAUKEE Magnetic Drill Presses provide an ideal combination of power and magnetic holding force with precision accuracy. Solves tough and costly drilling problems. These ruggedly built units attach to steel surfaces horizontally, vertically or overhead with tremendous magnetic force. Brings the capacity of stationary drill presses to the job. Saves labor, cost of dismantling heavy machinery and transportation of large equipment.

1¼" DRILL NO. 4280-1
MOUNTED ON STAND NO. 4210
MEDIUM RECTANGULAR BASE

2-SPEED DRILL NO. 4295-1
MOUNTED ON STAND NO. 4230
WITH ROUND MAGNETIC BASE

Round Magnetic Base with machined surface affords smooth movement of units on work surface when positioning. Micro lateral adjustment provides precise positioning of drill point. Positioning locks secure swivel unit to base. Holds setting at any point within 180°.

SINGLE SPEED OR 2-SPEED DRILLS

Single speed, MILWAUKEE-built Drills available in 1¼", ¾" and ½" capacities at speeds of 350, 400 and 450 RPM respectively. All models furnished with reversing motors . . . triple gear reduction for maximum torque . . . all ball and roller bearings. Two new, 2-Speed Drills have all the advantages of the single speed models plus greater versatility in speed and drilling power. One with speeds of 375 and 750 RPM . . . the other with speeds of 250 and 500 RPM. Low speed for large hole boring, tapping and reaming . . . high speed for small hole drilling.

¾" DRILL NO. 4260-1
MOUNTED ON STAND NO. 4220
LARGE RECTANGULAR BASE
(DRILL REVERSE MOUNTED)

MAGNETIC DRILL STANDS

Rectangular Base models available in large, medium and small sizes are used for steel plates or sheets and steel beams . . . Round Base Magnetic Stand for steel plates or sheets. Permits easy positioning and precise control. All Drill Stands have precision machined ways . . . dovetail design for accurate drill travel. Positive rack and pinion feed and 4 spoke wheel control for use on either side. Demagnetizing switch for fast removal from work. Neon light indicates magnet energized.

½" DRILL NO. 4250-1
MOUNTED ON STAND NO. 4200
SMALL RECTANGULAR BASE

SPECIFICATIONS

Drill Stands and Drills are packaged and priced separately. When ordering, specify catalog numbers of both Drill Stand and Drill. Assembly of Drill to stand is easy. A single heavy-duty cord and plug supplies electrical power to stand and Drill. All Drill Presses are furnished with safety chain . . . a precaution against operator losing control of unit while positioning vertically, overhead, or from possible power failure.

115 VOLT UNITS A.C. ONLY **ALL DRILLS ARE REVERSING**

Stand Catalog No.	Drill Catalog No.	Capacity		Chuck or Taper	No Load R.P.M.	Drill Stand Dimensions			▲Drill Point Pressure	Net Wgt. Stand Only	Comb. Net Wgt., Stand & Drill
		Drill	Tap†			Ht.	W.	L.			
4200 Small	4250-1 •	½"	½"-20	Chuck	450	12½"	3½"	10½"	900 lbs.	33 lbs.	39 lbs.
4210 Med. Rect.	4260-1	¾"	¾"-16	Chuck	400	17"	3¾"	13"	1100 lbs.	47 lbs.	66 lbs.
	4280-1 •	1¼"	¾"-16	No. 3 MT	350						65 lbs.
	4290-1 x	1¼"	¾"-16	No. 3 MT	750-375						69 lbs.
	4295-1 x	1¼"	¾"-16	No. 3 MT	500-250						69 lbs.
4220 Large Rect.	4260-1	¾"	¾"-16	Chuck	400	18"	5"	13¾"	1700 lbs.	62 lbs.	81 lbs.
	4280-1 •	1¼"	¾"-16	No. 3 MT	350						80 lbs.
	4290-1 x	1¼"	¾"-16	No. 3 MT	750-375						84 lbs.
	4295-1 x	1¼"	¾"-16	No. 3 MT	500-250						84 lbs.
4230 Round	4260-1	¾"	¾"-16	Chuck	400	19"	7½"	14"	1700 lbs.	53 lbs.	71 lbs.
	4280-1 •	1¼"	¾"-16	No. 3 MT	350						71 lbs.
	4290-1 x	1¼"	¾"-16	No. 3 MT	750-375						74 lbs.
	4295-1 x	1¼"	¾"-16	No. 3 MT	500-250						74 lbs.

X 2-speed drills. ▲ Maximum Pull on 1" Steel Plate, proportionately less on thinner sheets.
• Drills except Nos. 4250-1 and 4280-1, have dual mount gear case permitting reverse mounting of drill for close-quarter work.
† Maximum tapping capacity is dependent upon variable conditions prevailing, such as material, condition of tap, pitch, type cutting fluid used, etc.

NOTE . . .To adapt a 3/4" capacity chuck to 1-¼" Drills with No. 3 internal Morse Taper socket, specify Chuck No. 48-66-2000 and Arbor No. 48-07-0100

6' LENGTH SAFETY CHAIN
Same as furnished with unit.
(when ordered separately)
Catalog No. 48-58-0080

Type "A" Grease for Single Speed
½ lb. can **CAT. No. 49-08-0500**
1 lb. can **CAT. No. 49-08-0800**
Type "C" Grease for Two Speed
1 lb. can **CAT. No. 49-08-1000**

DRAIN CLEANER

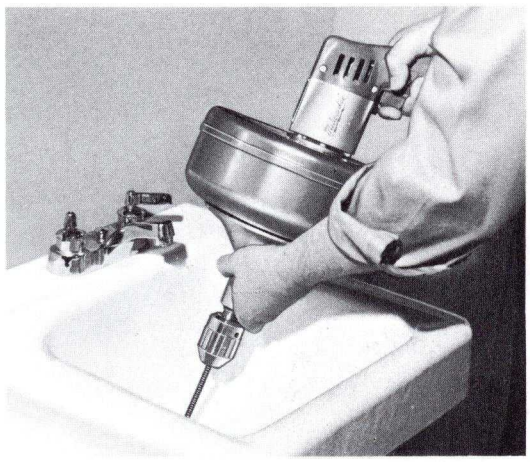
WITH TRIGGER SPEED CONTROL AND REVERSING MOTOR

QUICK, EASY RODDING OF UP TO 2" WASTE LINES

Powerful unit cleans out hard-to-get-at sink and toilet installations with ease . . . eliminates removing traps or clean out plugs. Total speed control from 0 to 500 rpm lets operator start slowly to work past crossbars . . . then run at whatever speed is needed to get through goosenecks and "T's" to remove stoppage. Just squeeze the trigger for the exact speed required on any job. The further the trigger is depressed, the higher the rpm. Reversing motor enables operator to spin cable in either direction for breaking up stoppage, freeing jammed hooks. Large external drum holds up to 30 feet of inner-core drop head cable. Jacobs chuck grips cable firmly, opens easily for fast cable feed.

- **New more powerful motor, specially designed for running cable**
- **Trigger Speed Control design protects cable from damage and permits safe operation from 0 to 500 R.P.M.**
- **Reversing motor makes cable extraction fast**
- **Large cable drum holds up to 30′ of inner-core drop head cable**

Catalog No. 0565-1 Kit Includes: 1/4" x 25′ Steel Cable Cat. No. 48-53-0010, 5/16" x 25′ Steel Cable Cat. No. 48-53-0015, 1/4" Repair Hook Cat. No. 49-20-0020, 5/16" Repair Hook Cat. No. 49-20-0040, Cable Guide Holder Cat. No. 49-17-0160, Cable Guide Cat. No. 49-13-0010 and Steel Carrying Case Cat. No. 48-55-6050.



Flexible steel cable follows plumbing bends and quickly removes rust, scale, grease, silt etc. No time wasted disconnecting fittings.

SPECIFICATIONS

115 Volts AC Only

Catalog No.	Speed rpm	Cable Size	Max. Cable Length	Max. Pipe Size I.D.	Length (inches)	Net Wgt. Lbs.	Shp. Wgt. Lbs.
0565-1 Kit	0 to 500	1/4" or 5/16"	30′	2"	17	9 1/4	36

STEEL CABLE

Right-hand wound cable expands when torque is applied. Designed for feeding through crossbars, down through and around the goose neck, or traps, over to the "T"... down the "T", not up the vent. It eliminates removal of the trap or clean out plug.

INNER-CORE DROP HEAD CABLE

Left-hand wound cable tightens against center core when torque is applied, making a solid shaft. Once through stoppage, tension on the cable is released, and it becomes flexible again.

STEEL CABLES

5/16" x 25′ STEEL CABLE
Includes repair hook.
Cat. No. 48-53-0015

5/16" x 30′ STEEL CABLE
Includes repair hook.
Cat. No. 48-53-0035

1/4" x 25′ STEEL CABLE
Includes repair hook.
Cat. No. 48-53-0010

1/4" x 30′ STEEL CABLE
Includes repair hook.
Cat. No. 48-53-0030

REPAIR HOOKS

For 1/4" CABLE
Cat. No. 49-20-0020

For 5/16" CABLE
Cat. No. 49-20-0040

INNER-CORE DROP HEAD CABLES

5/16" x 25′ INNER-CORE DROP HEAD CABLE
Includes drop head, 3/4" cutter, Socket head screws and wrenches for changing heads.
Cat. No. 48-53-0020

5/16" x 30′ INNER-CORE DROP HEAD CABLE
Includes drop head, 3/4" cutter, Socket head screws and wrenches for changing heads.
Cat. No. 48-53-0025

DROP HEAD PARTS KIT Cat. No. 49-22-2500
For 5/16" Inner-Core Cable — includes Drop Head, set screw for drop head, Socket Wrench for drop head, 3/4" cutter, 1" cutter, set screws and Socket Wrench for cutters.

REPAIR BULB

For 5/16" Inner-Core Drop Head Cable
Cat. No. 48-50-0010

DROP HEAD ASSEMBLY

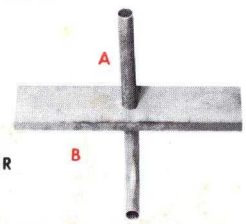
For 5/16" Inner-Core Drop Head Cable
Cat. No. 49-16-0010

CUTTERS

3/4" CUTTER **Cat. No. 48-38-0050**
1" CUTTER **Cat. No. 48-38-0060**

MISCELLANEOUS ACCESSORIES

JACOBS CHUCK WITH COLLET
Cat. No. 48-66-0270



A CABLE GUIDE
Cat. No. 49-13-0010

B CABLE GUIDE HOLDER
Cat. No. 49-17-0160

Type "A" Grease

1/2 lb. can
Catalog No. 49-08-0500

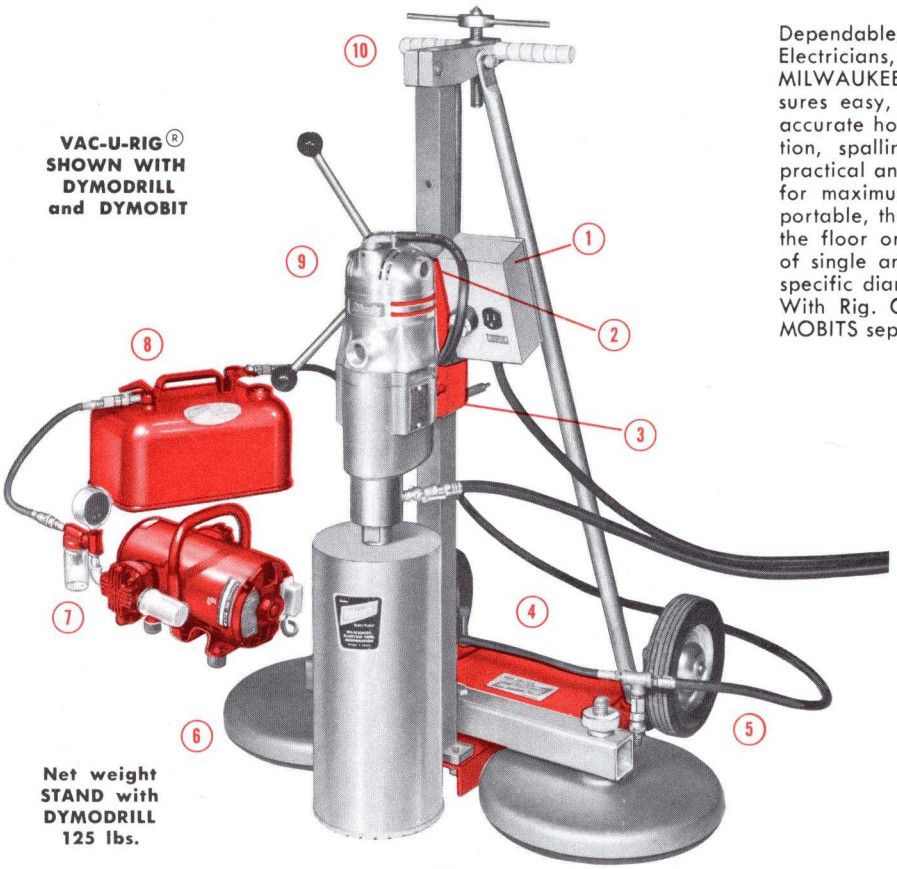
1 lb. can
Catalog No. 49-08-0800

STEEL CARRYING CASE
Cat. No. 48-55-6050

DYMODRILL EQUIPMENT

for Diamond Core Drilling in Concrete • Tile • Masonry

Dependable, powerful, rugged tools for Contractors, Plumbers, Electricians, Erectors and Maintenance Men. The combination of MILWAUKEE VAC-U-RIG® or DYMORIG and DYMODRILLS assures easy, quiet, economical diamond core-drilling of smooth, accurate holes in reinforced concrete. Eliminates sleeving, vibration, spalling or patching. This equipment provides the most practical and efficient method of rigidly positioning DYMODRILLS for maximum on-the-job diamond-drilling performance. Readily portable, they set-up in a few minutes and are easily secured to the floor or wall for vertical or horizontal drilling. A selection of single and 2-speed DYMODRILLS are also available to meet specific diamond-drilling requirements. DYMODRILL Not Included With Rig. Order VAC-U-RIG, DYMORIG, DYMODRILL and DYMOBITS separately.



VAC-U-RIG® SHOWN WITH DYMODRILL and DYMOBIT

Net weight STAND with DYMODRILL 125 lbs.

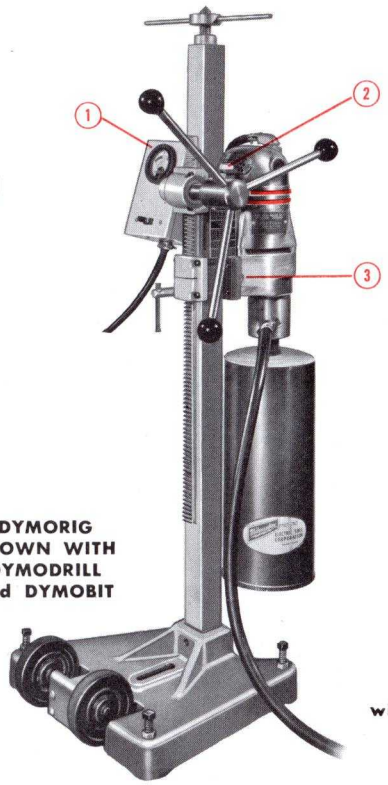
VAC-U-RIG®

CATALOG No. 4110

115 volts AC only

For use with DYMODRILLS. Includes stand with wheels and jack screw, vacuum pump, vacuum reserve tank, 2 vacuum pads, ammeter, bubble level, base leveling screws, cradle for mounting drill motor, four spoke wheel feed control, hose and fittings. Overall height 45". Net weight 139 lbs. Shipping weight 160 lbs.

Less DYMODRILL and DYMOBIT



DYMORIG SHOWN WITH DYMODRILL and DYMOBIT

DYMORIG with DYMODRILL only 85 lbs.

DYMORIG

CATALOG No. 4100

115 volts AC only

For use with DYMODRILLS (see next page). Balanced ... easy wheel portability. Rack and pinion feed — 24" travel — Operator feels drilling action of bit — 3 spoke feed control for uniform drilling pressure — Rugged aluminum base — Rigid stability for accurate, clean holes. Two color range ammeter indicates proper pressure and drilling speed — Jack Screw at top for bracing support to ceiling — Hole in base for anchor mounting — Base Leveling Screws and Bubble Level at top of cradle provide accurate setup. Cradle and Drill can be removed to lighten for installing base and column. DYMORIG can be used with VAC-U-RIG Attachment Kit. See next page. Net Wt. 65 lbs. Shp. Wt. 74 lbs. Less DYMODRILL and DYMOBIT.

VAC-U-RIG® Less All Vacuum Components CAT. No. 4111

For use with DYMODRILLS. Includes stand with wheels, jack screw, base leveling screws, bubble level, cradle for mounting drill motor and four spoke wheel feed control. Without vacuum, stand can be mounted to floor or wall with an expansion anchor or braced from the ceiling with telescoping assembly by using the jack screw. Net Wt. 86 lbs. Shp. Wt. 104 lbs. Less DYMODRILL and DYMOBIT.

OUTSTANDING FEATURES

1. **AMMETER** Two color range indicates proper pressure and drilling speed . . . guards against motor overload.
2. **BUBBLE LEVEL** Mounted at top of cradle. Base leveling screws provide quick set-up for true drilling.
3. **ACCURATE MOUNTING** Precision machined keyway securely positions DYMODRILL on cradle of VAC-U-RIG close to drill spindle. Assures accurate drilling alignment, stability.
4. **RIGID CONSTRUCTION** Solid steel column and tubular steel stabilizers provide maximum support for unit.
5. **EASY PORTABILITY** 8" rubber wheels are mounted on welded steel base and are off-the-floor when Rig is in use.
6. **VACUUM PADS** 13" diameter pads are cast aluminum with sponge rubber inserts. Vacuum line disconnects provide quick, simple set-up.
7. **VACUUM PUMP** Heavy-duty pump developes 3000 lbs. holding force within two 13" diameter vacuum pads.
8. **VACUUM RESERVE TANK** Prevents water from entering vacuum pump. Maintains limited vacuum reserve in event of power failure.
9. **RACK and PINION FEED** 27" travel — 4 spoke wheel control for uniform pressure. Operator feels drilling action of DYMOBIT.
10. **JACK SCREW** Used with Telescoping Assembly (See page 15) when vacuum is not required. Rig can also be anchor mounted thru hole in base.

For DYMODRILL ACCESSORIES and Full Line of DYMOBITS See Following Pages 15 and 16

DYMODRILL EQUIPMENT

For VAC-U-RIG® and DYMORIG

SINGLE SPEED and 2-SPEED DYMODRILLS

DYMODRILLS are specially designed for use with MILWAUKEE diamond core drilling rigs. A single speed model is available for bit diameters most commonly used. Two speed models increase versatility for a larger range of bit capacities and have a shift lever on the motor housing to transfer drive gear from one position to another — low speed for larger bits and high speeds for smaller bits. Triple gear reduction and heavy-duty motor produce high torque and 2¼ HP at the spindle. All have heat-treated, helical-cut steel gears, ball and roller bearings, and shear pin at the spindle to protect gears and motor against overload.

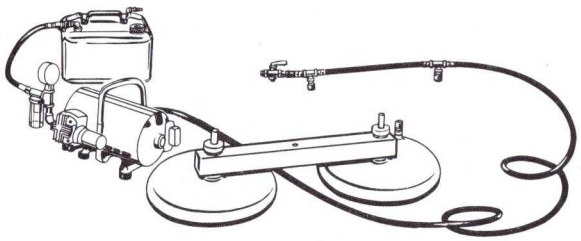
SPACER with KEY

CATALOG No. 49-67-0050

Allows use of bits thru 10" diameter. Spacer 1" thick, fits between cradle of Rig and Drill. Four mounting screws included.

VAC-U-RIG® ATTACHMENT KITS

Complete vacuum assemblies consisting of two 13" diameter suction pads, cross-bar, vacuum pump assembly with switch, gauge, filter, vacuum reserve tank, air hose and fittings.



CATALOG No. 49-22-7050 for use only with Catalog No. 4100 DYMORIG. Converts to vacuum mounting. Net Wt. 65 lbs. Shp. Wt. 70 lbs.

CATALOG No. 49-22-7060 for use with stand only—Catalog No. 4111. Same as furnished as standard with VAC-U-RIG Catalog No. 4110. Net Wt. 59 lbs. Shp. Wt. 64 lbs.

VACUUM PUMP AC only CATALOG No. 49-50-0115

Heavy-duty 1/6 HP pump complete with vacuum gauge, air filter, switch and cord. Same as furnished with VAC-U-RIG. Net weight 25 lbs. Shipping weight 27 lbs.

VACUUM RESERVE TANK CATALOG No. 49-76-0060

Galvanized 3½ gallon tank with 2 male disconnects and hose assembly. Same as furnished with VAC-U-RIG. Shipping weight 9 lbs.

WATER COLLECTOR RING

CATALOG No. 48-70-0050

For use where water flow from drilling operation must be trapped and drained. Dike-type collector ring holds water for fast disposal. Used with pump described below. Shp. Wt. 6 lbs.

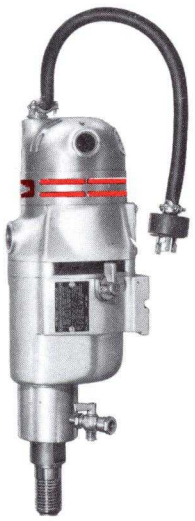
WATER COLLECTOR PUMP

AC only CATALOG No. 49-50-0050

Small heavy-duty pump of balanced impeller design, driven by 115 volt enclosed motor. Pumps out excess trapped water — abrasive-proof and quiet running. Furnished with reinforced plastic flexible hose. Shp. Wt. 12 lbs.

SPECIFICATIONS

Spindle thread size all models 1¼"-7.



Capacity ranges listed on specific models are for maximum drilling efficiency. All models can also be used for other diameters. For 9" and 10" diameter holes, use Spacer with Key Catalog No. 49-67-0050 and low speed DYMODRILLS.

Catalog No.	Speed RPM	Volts	Suggested Drilling Capacity	Net Wgt. (Lbs.)	Shp. Wgt. (Lbs.)
Single Speed					
3940	500	**115 AC ONLY**	3" to 5"	20	25
Two Speed					
4030	375 750	**115 AC ONLY**	5" to 8" 2½" to 5"	24	32
4035	500 1000		3" to 5" 1¼" to 3"	24	32

Standard equipment includes built-in water swivel, 8 ft. length of ⅜" heavy-duty rubber water hose complete with fittings and water control valve, extra shear pins, also an open end wrench for removing bits.

TELESCOPING EXTENSION ASSEMBLY

CATALOG No. 48-95-1000

Braces unit between floor and ceiling for maximum rigidity. Fixed hole adjustments. Assembly adjusts to 14 foot ceilings. Fractional take up between fixed settings made with jack screw at top of DYMORIG. Shp. Wt. 33 lbs.

WATER TANK

CATALOG No. 49-76-0050

3½ gal. pressure type made of heavy gauge galvanized steel. For use where regular tap water supply is not available. Shp. Wt. 8 lbs.

MISCELLANEOUS

RUBBER WATER HOSE

CATALOG No. 49-18-0050

8' long ⅜" ID as furnished with all DYMODRILLS

3/16" SOCKET WRENCH

CATALOG No. 49-96-0085

For mounting DYMODRILLS to cradle of VAC-U-RIG.

1⅜" OPEN END WRENCH

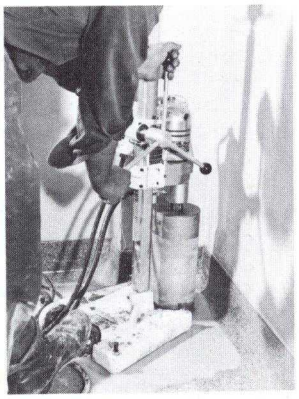
CATALOG No 49-96-4700

for DYMODRILLS listed above.

GREASE

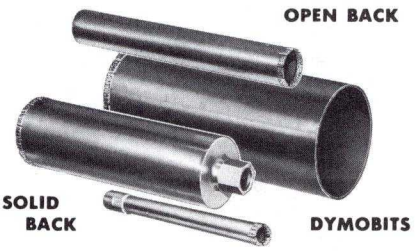
Type "A" for Single Speed Model
½ lb. can **CAT. No. 49-08-0500**
1 lb. can **CAT. No. 49-08-0800**
Type "C" for 2-speed Models
1 lb. can **CAT. No. 49-08-1000**

An 8" DYMOBIT cuts fast, clean and accurate using the VAC-U-RIG. Pump and Collector Ring disposes of water quickly. When drilling in corners a single pad can be used under center of base.



Drilling up close in tight corners is no problem. DYMORIG is braced to ceiling using telescoping assembly and jack screw at top of rig.

DYMOBITS and ACCESSORIES



FINEST QUALITY DIAMONDS

Only the highest quality industrial diamonds, carefully selected for uniformity and grade, are used in DYMOBITS. Special attention is given to position diamonds in the crown for a definite tracking pattern with best cutting edges exposed.

EXPANSION ADAPTERS FOR OPEN BACK DYMOBITS

Split ring expands against bit sleeve as threaded part of adapter is drawn up.

For use with bits 1¼" and larger. Self-centering, 3 piece friction drive — for easy positioning of bit sleeve and bit removal. Expansion adapters are reusable for new bits of the same size. By removing the sleeve from the adapter, an occasional lodged core can be removed from the back of the bit preventing damage to the crown.

SOLID BACK DYMOBITS

The welded adapter is an integral part of the Solid Back Bit. Precision machined and centered, the end of the adapter is threaded and milled flats are provided for easy removal of DYMOBIT from the spindle of Drill with open end wrench.

THREADED ADAPTER

CATALOG No. 48-04-0150

Reduces thread size of 1¼"-7 to ⅞"-14 or ½"-20 for DYMOBITS of 1¼", 1⅜" and 1½" diameter. Used on DYMODRILLS listed in table on page 15.

9" BIT EXTENSION

CATALOG No. 48-95-1500

For DYMOBITS of 1¾" diameter and larger. Both ends are threaded 1¼"-7. Two or more extensions can be coupled together for deeper hole drilling. Used on DYMODRILLS listed in table page 15.

10½" BIT EXTENSION

CATALOG No. 48-95-2000

Use with Threaded Adapter No. 48-04-0150 for Open Back DYMOBITS in sizes up to 1½" with ½"-20 threaded adapters, and Solid Back DYMOBITS in sizes 1¼" thru 1¾" with ⅞"-14 thread. Extension threads on ⅞"-14 spindle. Outer end is a two-stage spindle with ⅞"-14 and ½"-20 threads. Sizes 1" and smaller should not be used with this extension.

HARD AGGREGATE DIAMOND CORE BITS

DYMOBITS are designed to assure maximum cutting efficiency at minimum cost. Great concentration and orientation of the finest industrial diamonds set in a long wearing tungsten carbide matrix assures increased drilling footage even in extremely hard materials or heavily reinforced concrete. Drill bit tubes are precision machined and double cadmium plated.

4 TYPES AVAILABLE

GENERAL PURPOSE — OPEN and SOLID BACK For general core drilling in reinforced concrete, tile, masonry and marble. Diamonds are surface set in the matrix. Functionally designed waterways properly spaced in the matrix allow water to flush out cuttings, provide heat dissipation for long bit life.

RED CROWN — OPEN and SOLID BACK With diamond impregnated matrix for coring pre-stressed or reinforced concrete and other hard or highly abrasive materials. Diamond saturated matrix maintains uniform cutting efficiency for more footage, faster penetration and lower cost.

For Sizes Other Than Listed Contact Factory.

Nominal Bit Size O.D. •	† Core Length •	Open Back Bits Catalog No. Gen. Purpose	Open Back Bits Catalog No. Red Crown	Expansion Adapter (Required) Catalog No.	★ Thread Size Open Back Adapter	★ Thread Size Solid Back Bit	Solid Back Bits Catalog No. Gen. Purpose	Solid Back Bits Catalog No. Red Crown
¼"	4"	(¼" Bit is non-coring type)				½"-20 ▲	48-16-0250	
5/16"	4"						48-16-0310	
⅜"	4"	For DYMOBITS ¼" through 1" dia.					48-16-0370	
½"	4"	Refer to Solid Back Bits					48-16-0500	
⅝"	12"	(Column at Right)					48-16-0620	
¾"	12"						48-16-0750	
⅞"	12"						48-16-0870	
1"	12"						48-16-1000	
1¼"	12"	48-16-1251		48-04-1250		⅞"-14 ▲	48-16-1252	48-16-1256
1⅜"	12"	48-16-1371		48-04-1370	½"-20 ▲		48-16-1372	
1½"	12"	48-16-1501	48-16-1510	48-04-1500			48-16-1502	48-16-1512
1¾"	12"	48-16-1751		48-04-1750	1¼"-7		48-16-1752	
				48-04-1751	½"-20			
			48-16-1780	48-04-1750	1¼"-7			
				48-04-1751	½"-20			
2"	12"	48-16-2001		48-04-2000	1¼"-7		48-16-2002	
				48-04-2001	½"-20			
			48-16-2010	48-04-2000	1¼"-7			48-16-2012
				48-04-2001	½"-20			
2¼"	12"	———		———	———		48-16-2253	
2⅜"	12"	48-16-2371		48-04-2370	1¼"-7		48-16-2372	
				48-04-2371	½"-20			
2½"	12"	48-16-2501		48-04-2500	1¼"-7		48-16-2502	
				48-04-2501	½"-20			
			48-16-2510	48-04-2500	1¼"-7			48-16-2512
				48-04-2501	½"-20			
2¾"	12"	———		———	———		48-16-2752	
3"	12"	48-16-3001		48-04-3000		1¼"-7	48-16-3002	48-16-3012
			48-16-3010					
3½"	12"	48-16-3501		48-04-3500			48-16-3502	
			48-16-3510					
4"	12"	48-16-4001		48-04-4000			48-16-4002	
			48-16-4010					48-16-4012
4¼"	12"	48-16-4251		48-04-4250			48-16-4252	
4½"	12"	48-16-4501		48-04-4500			48-16-4502	
5"	12"	48-16-5001		48-04-5000			48-16-5002	
			48-16-5010					48-16-5012
6"	12"	48-16-6001		48-04-6000	1¼"-7		48-16-6002	
			48-16-6010					48-16-6012
6¼"	12"	48-16-6251		48-04-6250			48-16-6252	
7"	12"	48-16-7000		48-04-7000			48-16-7001	
8"	12"	48-16-8000		48-04-8000			48-16-8001	
9"	12"	48-16-9000		48-04-9000			48-16-9001	
10"	12"	48-16-9500		48-04-9500			48-16-9501	
11"	12"						48-16-9550	
12"	12"	For DYMOBITS 11" through 14" dia.					48-16-9600	
13"	12"	Refer to Solid Back Bits					48-16-9650	
14"	12"	(Column at Right)					48-16-9700	

• Dimensions vary slightly from specified size.

† All bits ⅝" and larger will cut 12" concrete. Overall lengths vary depending on adapter type and diameter.

★ NOTE — Check thread size with spindle thread on Drill or refer to specifications for DYMODRILLS. It may be necessary to use a threaded Adapter to fit Drill spindle.

▲ When used with Drills with 1¼"-7 thread use Threaded Adapter Cat. No. 48-04-0150.

STRAP WRENCHES

To remove DYMOBIT. Available in two sizes.

CATALOG No. 49-96-8100 for bits up to 2" diameter.

CATALOG No. 49-96-8200 for bits from 2" to 8" dia.

VACUUM CLEANERS

FOR MAXIMUM HEAVY-DUTY CLEANING APPLICATIONS

9 GALLON CAPACITY

Catalog No. 8911

Red Enameled Steel Wet or Dry Pick-Up

1⅝ HP, two-stage bypass motor delivers 17,500 rpm with 16" dia. red enameled 22 ga. steel tank. Ideal for fast clean-up of office carpets, quick drying of tile floors and many other heavy industrial and construction uses.

9 GALLON CAPACITY

Catalog No. 8916

Stainless Steel Wet or Dry Pick-Up

Deluxe non-corrosive 16" dia. stainless steel tank assures maximum life. 1⅝ HP, two-stage bypass motor delivers 17,500 rpm. Ideal for jobs requiring extensive wet pick-up. Rapid-Flow Drain Valve allows complete drainage without tipping tank.

1½ BUSHEL CAPACITY

Catalog No. 8921

Red Enameled Steel Dry Pick-Up Only

High output straight-thru motor provides maximum power. Easily picks up fine sawdust, machine shop debris and sharp metal cuttings. 16" dia. 22 ga. steel tank perfect for furnace cleaning and other uses requiring pick-up of fine dust.

½ BUSHEL CAPACITY

Catalog No. 8931

Red Enameled Steel Dry Pick-Up Only

Compact 14" dia. 22 ga. steel tank with high output straight-thru motor for maximum power. Easily picks up fine sawdust, machine shop debris and sharp metal cuttings.

4½ GALLON or ¾ BUSHEL CAPACITY

Catalog No. 8935

Red Enameled Steel Wet or Dry Pick-Up

1⅝ HP, two-stage bypass motor delivers 17,500 rpm. High capacity 14" dia. red enameled 22 ga. tank. An ideal rental unit designed for fast clean-up of office/home carpets, quick drying of tile floors and other heavy-duty applications.

MILWAUKEE vacuum cleaners pick up debris from concrete, tile, hardwood or carpet-covered surfaces indoors or outdoors and are ideal for furnace cleaning or vacuuming water and cuttings from diamond core drilling. These vacuum cleaners are designed to service industrial, maintenance, construction and automotive users.

OUTSTANDING FEATURES

- POSITIVE WATER SHUT-OFF—On wet/dry machines protects motor from direct exposure to water.
- HEAVY-DUTY FILTER SYSTEM—For the roughest coarse materials to the finest dust.
- USE AS BLOWER—Switch hose from intake to exhaust, 90 cubic feet of air per minute can be directed for cleaning inaccessible areas.

GENERAL SPECIFICATIONS

All models are equipped with 1½" O.D. hose connections, cord with 3-prong grounded plug, accessory outlet receptacle on motor housing, 3 spring vinyl covered hold-down clamps and 4-wheel caddie with non-marring wheels.

SPECIFICATIONS — 115 Volts

Catalog No.	For Materials	Recov. Cap. Gal.	Recov. Cap. Bu.	Tank Type	Max. Air Flo Cu. Ft./Min.	Overall Dim. W.	Overall Dim. Ht.	Net Wgt. (lbs.)	Shp. Wgt. (lbs.)
8911	Wet or Dry	9	1½	Steel	92	19"	32"	50	66
8916	Wet or Dry	9	1½	Stainless	92	19"	32"	50	66
8921	Dry Only	—	1½	Steel	95	19"	32"	45	61
8931	Dry Only	—	½	Steel	95	17"	25"	42	58
8935	Wet or Dry	4½	¾	Steel	92	17"	28"	45	61

STANDARD EQUIPMENT

FOR MODELS 8911 AND 8916 — 3 paper filter bags, cloth filter, gasket and wire frame assembly, wet pick-up conversion pan, and canvas store-all tool bag.

FOR MODEL 8921 — 3 paper filter bags, cloth filter gasket and wire frame assembly. Canvas store-all tool bag.

FOR MODEL 8931 — 3 paper filter bags, cloth filter, gasket, wire frame assembly and hose carrier.

FOR MODEL 8935 — 3 paper filter bags, wet pick-up pan, cloth filter, gasket, wire frame assembly and wire hose cage.

MOTOR HEAD AND DRUM ADAPTER ASSEMBLY

① MOTOR HEAD ONLY — Catalog No. 8940

The same powerful Motor Head as furnished with Models 8911 and 8916 (above) with 22' of cord. Requires use of 16" dia. Conversion Pan for wet pickup. Wire Frame Filter Cage, Cloth Filter and Gasket assembly and 16" Dacron Filter Bag required for dry pickup. Order these and a'l other accessories separately. Net Weight 14 lbs., Shipping Weight 16 lbs.

② DRUM ADAPTER — Catalog No. 49-90-1590

Fits your 55 gal. drum. Gasket secures tightly to drum when vacuum is in operation. Adaptable to Motor Head 8940 and those on Nos. 8911, 8916 and 8921. Use 16" dia. accessories. Net Weight 10 lbs., Shipping Weight 11 lbs.

③ DOLLY — Catalog No. 49-90-1100

For 55 gal. drum. Sturdy steel construction with 4 wheels and long hinged handle. Drum easily tips off or on. Net Weight 43 lbs., Shipping Weight 45 lbs.

VACUUM MOTOR DESIGN

Centrifugal blower produces high efficient vacuum and air flow. Models 8911, 8916, 8935 and 8940 have a two-stage bypass motor for wet/dry operation. It provides discharge of vacuum air from the fan case with a separate system for motor cooling. Clean air is drawn into top of motor and discharged through motor housing vents protecting motor from direct exposure to moisture.

Models 8921 and 8931 have a straight-thru motor for dry pick-up. Filters remove dirt from air before reaching the motor. Filtered air is drawn from tank and directed over electrical motor parts for cool efficient operation.

VACUUM CLEANER ACCESSORIES

FOR CURRENT MODELS ON PAGE 17
ALSO FOR PREVIOUS MODELS 8910, 8915, AND 8930

WIRE FRAME FILTER CAGE, CLOTH FILTER AND GASKET ASSEMBLY

Available for both 14" and 16" dia. tanks. The filter assembly acts as a final filter for air leaving tank. To achieve the best possible results, the cloth filter gasket and wire frame must be maintained. Any wear holes or gasket leaks will allow dust and debris to blow through exhaust ports.

Wire Frame Filter Cage 16" Dia.
Cat. No. 49-90-0270

Cloth Filter and Gasket 16" Dia.
Cat. No. 49-90-0260

Wire Frame Filter Cage 14" Dia.
Cat. No. 49-90-0290

Cloth Filter and Gasket 14" Dia.
Cat. No. 49-90-0280

DACRON FILTER BAG

Cat. No. 49-90-0320

Fits 14" and 16" dia. tanks. The dacron bag is suited for pick-up of medium fine dust as well as coarse sharp material. To be used without paper filter bags. Fits over cloth filter assembly.

MAJOR FLOOR TOOL

Major Floor Tool with two "quick turn" thumb screws for quick tool changing. Accommodates interchangeable 14" inserts and replacements. Supplied with 49-90-0610 bumper.

Cat. No. 49-90-0550

REPLACEMENT BUMPER FOR MAJOR FLOOR TOOL

Cat. No. 49-90-0610

BRISTLE SHOD SHOE

For Major Floor Tool. For rough floors, large wall and ceiling areas.

Cat. No. 49-90-0560

REPLACEMENT BRUSH STRIPS (2)

Cat. No. 49-90-0630

SQUEEGEE SHOE

Use with Major Floor Tool. For fast drying of washed floors.

Cat. No. 49-90-0580

REPLACEMENT SQUEEGEE BLADES (4)

Cat. No. 49-90-0640

DOUBLE BEND FLOOR ROD

Cat. No. 49-90-1000

Built-in swivel connection adapts to 1 ½" ID hose, with compression fitting that accommodates all floor tools. Made of chrome-plated steel.

14" CARPET INSERT

For Major Floor Tool. Bottom plate perfectly designed for cleaning rugs, carpeting.

Cat. No. 49-90-0600

FABRIC SHOD ATTACHMENT SHOE

Use with Major Floor Tool. Suited for cleaning cement and concrete floors.

Cat. No. 49-90-0570

REPLACEMENT FABRIC STRIPS (2)

Cat. No. 49-90-0620

FELT SHOD ATTACHMENT SHOE

Use with Major Floor Tool for walls and smooth hard floors such as tile, hardwood.

Cat. No. 49-90-0590

REPLACEMENT FELT BLADES (2)

Cat. No. 49-90-0650

15" CREVICE TOOL

Cat. No. 49-90-0400

27" CREVICE TOOL

For cleaning behind radiators, other hard to reach corners and crevices.

Cat. No. 49-90-0410

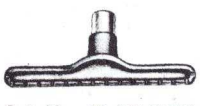
RUBBER BLOWER NOZZLE

Flor blowing dust and dirt out of cracks and inaccessible areas. Excellent for machinery.

Cat. No. 49-90-0460

20" EXTENSION

Cat. No. 49-90-0510



WIDE MOUTH GULPER

Ideal for use on bare floors or rugs. 12" cleaning path. Compression Type, fits on Double Bend Floor Rod No. 49-90-1000.

Cat. No. 49-90-0540

HORSE HAIR BRUSH

Heavy-duty cast aluminum, wide mouth nozzle with plastic bumper. 10" cleaning path. Compression Type, fits on Double Bend Floor Rod No. 49-90-1000.

Cat. No. 49-90-0750

NYLON BRISTLE BRUSH

Heavy-duty cast aluminum, wide mouth nozzle with plastic bumper. 10" cleaning path. Compression Type, fits on Double Bend Floor Rod No. 49-90-1000.

Cat. No. 49-90-0760

REPLACEMENT PLASTIC BUMPER

Replacement for horse hair and nylon bristle brushes.

Cat. No. 49-90-0720

HORSE HAIR BRUSH INSERT REPLACEMENT

Cat. No. 49-90-0700

NYLON BRUSH INSERT REPLACEMENT

Cat. No. 49-90-0710

UTILITY NOZZLE

Cat. No. 49-90-0740
Taper fit utility and upholstery nozzle. Fits 1 ½" ID hose. 6" cleaning path.

CLAMP-ON NYLON BRISTLE BRUSH WITH BUMPER

Cat. No. 49-90-0480
Attach directly to utility nozzle.

REPLACEMENT NYLON BRISTLE BRUSH INSERT

Cat. No. 49-90-0680
For nylon bristle brush with bumper No. 49-90-0480.

REPLACEMENT BUMPER

Cat. No. 49-90-0690
For nylon bristle brush.

3" ROUND DUST BRUSH

Cat. No. 49-90-0730
3" round dust brush with nylon bristles and bumper. Fits 1 ½" ID hose.

REPLACEMENT BRUSH INSERT

Cat. No. 49-90-0660
Replacement for round dust brush.

REPLACEMENT BUMPER

Cat. No. 49-90-0670
For round dust brush.

VACUUM CLEANER ACCESSORIES

FOR CURRENT MODELS ON PAGE 17
ALSO FOR PREVIOUS MODELS 8910, 8915, AND 8930

WHITE CANVAS HOSE 10'

NO. 49-90-0020

Canvas covered, wire reinforced, rubber lined vacuum hose, 1 ½" ID. Two straight molded cuff ends. Order swivel-end connector separately.

BLACK CANVAS HOSE 10'

NO. 49-90-0030

Canvas covered, wire reinforced, rubber lined vacuum hose. Strong resilient, 1 ½" ID with two straight molded cuff ends. Order swivel-end connector separately.

WIRELESS VINYL HOSE

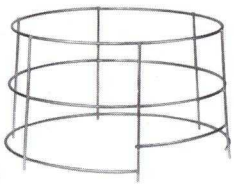
NO. 49-90-0060 10'
NO. 49-90-0070 25'

Crushproof multi-flex hose with no wire reinforcement. 1 ½" ID with two molded cuff ends. Order swivel-end connector separately.

STEEL HOSE CONNECTOR

NO. 49-90-0195

Used to connect 1 ½" hoses.



HOSE CARRIER

Ideal for neat safe storage of vacuum hoses. Makes moving from one location to another easier.

FOR 14" TANKS
NO. 49-90-0170
FOR 16" TANKS
NO. 49-90-0180

BLACK NEOPRENE HOSE

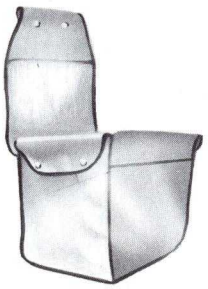
NO. 49-90-0040 15'
NO. 49-90-0050 25'

Neoprene lined, oil resistant, wire reinforced, 1 ½" ID with two straight molded cuff ends. Order swivel-end connector separately.

METAL HOSE 6'

NO. 49-90-0080

For cleaning boiler tubes and furnaces. 1 ¼" O.D. fits into standard 1 ½" ID hoses.



SWIVEL-END CONNECTOR

NO. 49-90-0150

Quick connect/disconnect feature makes attaching hoses to MILWAUKEE vacuum cleaners easy. Fits into 1 ½" ID hoses.

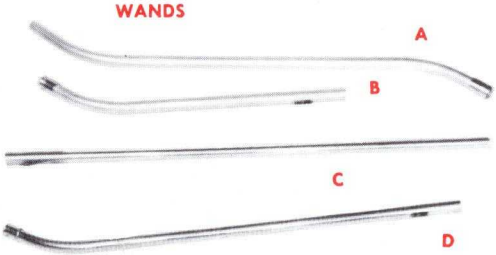
CANVAS STORE-ALL TOOL POUCH

For Models 8911, 8916 and 8921
NO. 49-90-0250

Strong durable vinyl covered canvas pouch... makes toting extra tools easy.

ACCESSORIES FOR PREVIOUS MODELS 8900 AND 8905

WANDS



A 2-BEND ALUMINUM WAND

For normal cleaning. Five feet long with 45° bend on both ends, locking device.
Cat. No. 49-90-0010

B 3-FT. ALUMINUM EXTENSION

Furnished with snap lock for use with other wands or for close-quarter work.
Cat. No. 49-88-0010

C 5-FT. HIGH-UP TUBE

Sleeve assembly permits adding to other tubes for high work on walls, ceilings.
Cat. No. 49-88-0020

D 5-FT. TUBE WITH SNAP-LOCK

Lightweight and single bend for flexibility, greater reach. For high work.
Cat. No. 49-88-0030

3" ROUND BRUSH

Cat. No. 49-90-0730

Replacement Brush
Cat. No. 49-90-0660

Replacement Bumper
Cat. No. 49-90-0670

UPHOLSTERY TOOL

7" tool with sleeve.

Cat. No. 49-80-0100

9" HARD BRISTLE SWIVEL TOOL

Short, tight bristle for use on hard, rough surfaces. Gets into crevices.

Cat. No. 49-80-0120

9" SOFT BRISTLE SWIVEL TOOL

Long, soft bristle for use on walls and ceilings. Easily cleans away dust and soot.

Cat. No. 48-52-4850

15" CREVICE TOOL

Cat. No. 49-90-0400

27" CREVICE TOOL

For cleaning behind radiators, other hard to reach corners and crevices.
Cat. No. 49-90-0410

RUBBER BLOWER NOZZLE

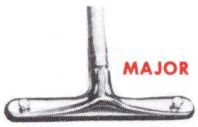
For blowing dust and dirt out of cracks and inaccessible areas. Excellent for machinery.
Cat. No. 49-90-0460.

UTILITY NOZZLE

Cat. No. 49-90-0740

Clamp-on nylon bristle brush with bumper
Cat. No. 49-90-0480
Replacement nylon bristle brush insert
Cat. No. 49-90-0680
Replacement Bumper
Cat. No. 49-90-0690

MAJOR FLOOR TOOL



Versatile 14 inch tool for heavy-duty cleaning. Accommodates interchangeable inserts listed for special jobs.
Cat. No. 49-80-0140

14" CARPET INSERT

For Major Floor Tool. Bottom plate perfectly designed for cleaning rugs, carpeting.

Cat. No. 49-21-0030

SQUEEGE INSERT

Use with Major Floor Tool. For fast drying of washed floors.

Cat. No. 49-21-0040

14" FELT INSERT

Use with Major Floor Tool for walls and smooth hard floors such as tile, hardwood.

Cat. No. 49-21-0010

14" BRISTLE INSERT

For Major Floor Tool. For rough floors, large wall and ceiling areas.

Cat. No. 49-21-0020

DACRON FILTER BAG

Heavy-duty dacron bag fits over filter cage for wet or dry pickup. Washable.
Cat. No. 48-09-0010

PAPER FILTER BAG

Use of flame-resistant paper filter bags makes tank clean-out as easy as possible. Quick, easy installation gets machine going again fast. Specially suited for picking up the finest particles of dust and soot. Pack of 7. **Cat. No. 49-90-0330**

HEAVY-DUTY HOSES

Hoses listed at the top of this page will fit the 8900 and 8905 when used with hose clamp **Cat. No. 48-67-0110.** Swivel-end connector is not required.

3/4" ELECTRIC HAMMER

for Contractors • Industry • Maintenance • Installation

Ball and Roller Bearings

HARD HITTING HAMMER
3000 BLOWS PER MINUTE

Engineered for best performance, highest efficiency, dependability and long life.

Catalog No. 5360 Electric Hammer Kit. LIMITED SET — includes ¾" Electric Hammer, with star drill chuck, ½" star drill, drift pin, tool retaining spring, grease gun, grease, and steel carrying case.

Catalog No. 5380 Electric Hammer Kit. Includes ¾" Electric Hammer with taper star drill chuck, drift pin, tool retaining spring for chisels, one each bull point, cold chisel, brick cleaning chisel and mortar cutting chisel, eight assorted star drills ¼", 5/16", ⅜", 7/16", ½", ⅝", ¾" and ⅞" sizes, grease gun, grease and steel carrying case.

SPECIFICATIONS

Catalog No.	Kit (See above)	Volts	Shp. Wgt. (Lbs.)
5360	Limited	115	26
5380	Complete		30

Efficient Operating Limit (Dia.) ..... 11/64" to ⅞"
Maximum Operating Dia. ..... 1⅛"
Length overall (tool only) ..... 16⅞"

CONVERSION KIT

Catalog No. 48-62-0200 Additional accessories required to convert No. 5360 Limited Kit to No. 5380 Complete Kit

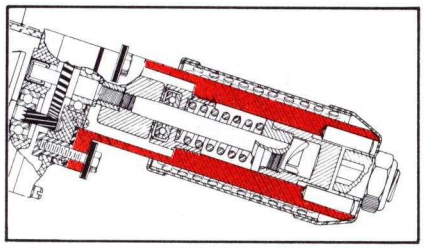
Milwaukee ¾" Electric Hammer shown removing brick on remodeling job is also ideal for setting self-drilling anchors on installation and maintenance work using Tooth Anchor Chucks.

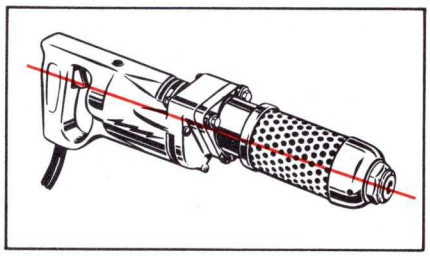
For drilling holes in concrete and masonry for conduit, anchors and expansion shields • Chipping • Channeling • Scaling Chiseling and Tuck Pointing

Handles a wide range of Star Drills, Tooth Anchors, Chisels and Bull Point. Lightweight, perfect working balance and ruggedly built for continuous use with the right combination of power, speed and durability. Hammer blow is forward only with a patented cushioned recoil mechanism to eliminate jolting action — This mechanism has been preferred and proven for over 45 years.

OUTSTANDING FEATURES

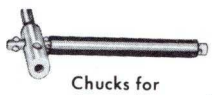
RUGGED CAM ACTION
Simple, direct spring and cam action results in long life without loss of efficiency. "Ampco" aluminum bronze hammer cylinder withstands and absorbs powerful impact.





PERFECT BALANCE
Straight "In-Line" Hammer design provides perfect balance for ease in handling in any position and in close quarters. The weight is evenly distributed.

ACCESSORIES


Chucks for Star Drills Tooth Anchors

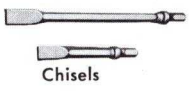
Brick Cleaning Chisel

Mortar Cutting Chisel

Retaining Spring

Star Drills

Bull Point


Chisels

Grease Gun & Grease

Catalog No.	Description
STAR DRILLS and CHUCK	
48-88-0251	¼" x 6"
48-88-0252	¼" x 12"
48-88-0310	5/16" x 6"
48-88-0311	5/16" x 12"
48-88-0370	⅜" x 6"
48-88-0371	⅜" x 12"
48-88-0430	7/16" x 6"
48-88-0500	½" x 6"
48-88-0501	½" x 12"
48-88-0620	⅝" x 6"
48-88-0621	⅝" x 12"
48-88-0750	¾" x 6"
48-88-0751	¾" x 12"
48-88-0870	⅞" x 6"
48-88-0871	⅞" x 12"
48-88-1000	1" x 6"
48-88-1001	1" x 12"
48-88-1120	1⅛" x 6"
48-66-5010	Star Drill Chuck ★
BULL POINT	
48-62-0060	⅝" x 12"

Catalog No.	Description
CHISELS	
48-62-0070	⅝" x 7" Cold Chisel
48-62-0050	⅝" x 12" Cold Chisel
48-62-0080	Brick Cleaning Chisel
48-62-0090	Mortar Cutting Chisel
TOOTH ANCHOR CHUCKS	
48-66-5100	FOR BOLT SIZE ¼", 5/16", ⅜", ½", ⅝" — O.D. OF ANCHOR 7/16", 15/32", 9/16", 11/16", 27/32"
48-66-5160	
48-66-5140	
48-66-5080	
48-66-5180	
MISCELLANEOUS	
48-55-0560	Carrying Case
49-08-0500	½ Lb. Can "A" Grease } FOR GEARS
49-08-0800	1 Lb. Can "A" Grease } FOR GEARS
49-08-0600	½ Lb. Can "B" Grease } FOR MECHANISM
49-08-0900	1 Lb. Can "B" Grease } FOR MECHANISM
49-14-0200	Grease Gun
49-68-0020	Tool Retaining Spring
48-86-0090	Drift Pin

★ Drift Pin Catalog No. 48-86-0090 included with each chuck.

HAMMER-DRILLS

Versatile • Dependable • Low Cost Performance

Ball and Roller Bearings

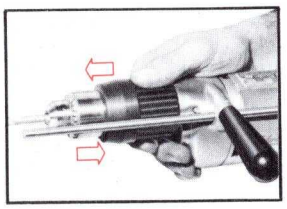
Available In Kit Form With Steel Carrying Case

Designed for Fast Percussion Drilling in Concrete or Masonry and High Speed Drilling Without Hammering in Wood or Metal.

For contractors, erectors, installation and maintenance men. Light weight, only 4½ lbs. . . . easy to handle. Powerful motor with high velocity fan cooling. Heat treated and hardened shafts. Wide, precision helical-cut gears. When hammer-drilling, light pressure against work engages mechanism. Hammer action stops when not under load . . . prevents damage when idling. All mechanism parts are case hardened for long life. Rubber dust shield protects against harmful abrasive dust. Adjustable depth gauge and removable side handle. Trigger lock-button for continuous operation.

EXCLUSIVE

Simple, slide-shift action of fluted collar for fast easy change from hammering with rotation to rotation only. Shift forward for drilling wood or metal. Retract for percussion drilling in concrete or masonry.



OUTSTANDING FEATURES

- **Powerful 4.5 amp motors with high velocity fan cooling.**
- **Drills 11/64" to 5/16" Anchor Holes in construction grade concrete with Percussion Carbide Tip Bits. 50,000 blows per minute at 2500 RPM.**
- **Drills up to ¼" in steel and ½" in wood at 2500 RPM with drilling action only using standard drill bits.**
- **Compact and lightweight. Ideal for drilling overhead.**
- **Trigger Speed Control model provides speeds of 0 to 2500 RPM for maximum control and accuracy. Prevents bit walking when starting holes in tile and ceramics at low speed. Depress trigger for higher speeds.**

① **Rubber dust shield over chuck in front of fluted collar protects against harmful abrasive dust.**

② **Depth gauge quickly adjusts to any drilling depth required for anchors.**

③ **Side handle for ease in handling . . . removable for close quarter work.**

SPECIFICATIONS

115 Volts

Catalog No.	Type	Blows Per Min.	No Load RPM	Length Inches	Net Wgt Lbs.	Shpg. Wgt Lbs.
5390 Tool Only **5395** Kit	**Single Speed**	50,000	2,500	11	4½	7 15
5392 Tool Only **5397** Kit	**Trigger Speed Control**	50,000	0 to 2,500	11	4½	7 15

TOOL ONLY includes Hammer-Drill, depth gauge, removable side handle, rubber dust shield, special ⅜" industrial, geared, key-type chuck and chuck key with holder.

KIT. Same as Tool Only. Also includes 3/16" x 3", ¼" x 4", ⅜" x 4" and ½" x 6" percussion carbide-tip bits and steel carrying case.

PERCUSSION CARBIDE-TIP BITS

For Drilling Concrete and Masonry

These Carbide-Tip Bits are especially made with round shanks for use with Hammer Drills. Alloy steel shanks and bodies are heat treated for durability and long life. Highest quality carbide tips brazed to steel bodies resist dulling, stay sharp longer and can be resharpened often. Wide spiral with shallow oval flutes removes dust fast to assure maximum drilling efficiency.

SPECIFICATIONS

Bit Dia. (Inches)	Catalog No.	Shank Dia. (Inches)	Overall Length (Inches)
11/64	**48-20-6170**	11/64	3
3/16	**48-20-6180**	3/16	3
7/32	**48-20-6220**	3/16	3
1/4	**48-20-6250**	1/4	4
1/4	**48-20-6251**	1/4	6
9/32	**48-20-6280**	17/64	4
5/16	**48-20-6310**	17/64	4
5/16	**48-20-6311**	17/64	6
3/8	**48-20-6380**	5/16	4
3/8	**48-20-6381**	5/16	6
3/8	**48-20-6382**	5/16	13½
7/16	**48-20-6440**	3/8	6
15/32	**48-20-6470**	3/8	6
1/2	**48-20-6500**	3/8	6
1/2	**48-20-6501**	3/8	13½
9/16	**48-20-6560**	3/8	6

NOTE: Bits 11/64" thru 5/16" dia. are for use with Milwaukee Hammer-Drill with ⅜" chuck. Above bits and those listed below can be used with other Hammer-Drills depending upon chuck capacity. See shank dia. column.

5/8	**48-20-6620**	1/2	6
11/16	**48-20-6690**	1/2	6
3/4	**48-20-6750**	1/2	6
7/8	**48-20-6880**	1/2	6

⅜" SPECIAL CHUCK

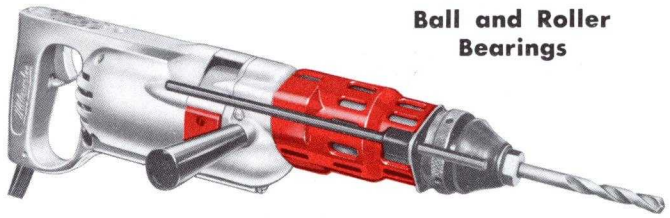
Catalog No. 48-66-0810 Industrial, key type, 3-jaw chuck with ⅜-24 thread for use with Milwaukee Hammer-Drill. Includes Chuck Key No. 48-66-3240.

MISCELLANEOUS

Catalog No.	Description
49-62-0090	Rubber Dust Shield
48-55-0710	Steel Carrying Case
48-66-4040	Rubber-Flex Key Holder
49-08-0500	½ Lb. Can "A" Grease } For Gears
49-08-0800	1 Lb. Can "A" Grease } For Gears
49-08-0150	3 oz. Lubricant for Mechanism

3/4" ROTARY HAMMER

for Percussion Carbide-Bit Drilling in Concrete and Masonry.



Ball and Roller Bearings

Catalog No. 5350

2500 HEAVY HAMMER BLOWS PER MINUTE
1000 RPM NO LOAD SPEED

This powerful, lightweight Rotary Hammer is designed for fast, economical drilling—Drills 5½" per minute with ½" bit in construction grade concrete — An ideal tool for drilling anchor holes. "A" taper bits in popular sizes fit directly into nose of tool. Light pressure against work engages hammer action. Hammering with spring-loaded ram mechanism is combined with high torque rotation for best drilling efficiency. Hammer action stops when not under load, preventing damage while idling. Adjustable depth gauge assures accurate drilling depths. Auxiliary side handle is interchangeable right or left. Dust shield protects mechanism when drilling overhead. Special air intake and exhaust vents provide maximum cooling.

Catalog No. 5350 Rotary Hammer Kit. Includes ¾" Rotary Hammer with "A" taper adapter, drift key, auxiliary side handle, depth gauge, dust shield, 3 oz. tube of lubricant for mechanism and steel carrying case.

Catalog No. 5355 Rotary Hammer Kit. Same as above. Also includes 6 "A" taper bits ¼"x4", ⅜"x4½", 7/16"x4½", ½"x4½", 9/16"x5" and ⅝"x5".

SPECIFICATIONS

115 volts

Catalog No.	Capacity in Concrete	Blows per Min.	No Load RPM	Lgth. in.	Net Wgt. lbs.	Shpg. Wgt. lbs.
5350 5355	¾"★	2500	1000	17½	10	21 22

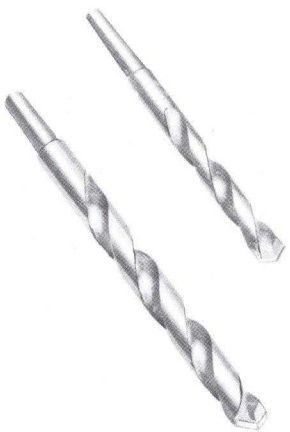
★Maximum Operating Diameter — ⅞".

ACCESSORIES

"A" TAPER PERCUSSION CARBIDE-TIP BITS

MILWAUKEE "A" Taper Bits have alloy steel shanks and bodies for strength and durability. Wide spiral with shallow flutes removes dust fast. Prevents packing and assures maximum drilling efficiency. Durable carbide-tip brazed to steel body . . . stays sharp longer. Use rotation with hammering action.

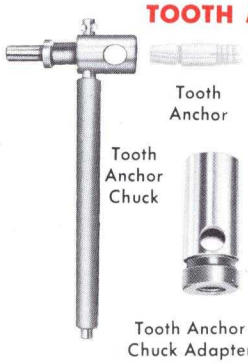
Bits Fit Directly Into Nose of Tool



"A" TAPER BITS

Bit Dia. (in.)	Catalog No.	Overall Length (in.)	Max. Drilling Depth (in.)
¼	48-20-3250	4	2
¼	48-20-3252	6	4
5/16	48-20-3310	4½	2½
5/16	48-20-3312	6	4
⅜	48-20-3380	4½	2½
⅜	48-20-3381	9	7
⅜	48-20-3382	12	10
7/16	48-20-3440	4½	2½
15/32	48-20-3470	4½	2½
½	48-20-3499	9	7
½	48-20-3500	4½	2½
½	48-20-3501	12	10
9/16	48-20-3559	5	3
9/16	48-20-3560	9	7
⅝	48-20-3619	5	3
⅝	48-20-3620	9	7
⅝	48-20-3621	12	10
11/16	48-20-3690	5	3
¾	48-20-3790	5½	3½
¾	48-20-3795	9	7
⅞	48-20-3860	5	3

TOOTH ANCHOR CHUCKS and ADAPTER



Use with hammering action only — Manual Rotation

Catalog No.	Description
48-66-6720 48-66-6730	For Bolt Size ¼"-3/16" Anchor O.D. 7/16" ⅜" 9/16"
48-03-3615	Chuck Adapter
48-86-0100	Drift Pin
49-68-0075	Retaining Spring

TOOTH ANCHOR CHUCK KIT

Catalog No. 49-22-2050 Includes all items listed in table above.

SPECIAL FEATURES

NO HOURLY OR DAILY OILING
GREASE PERIODICALLY
DEPENDING UPON AMOUNT OF USE

3-WAY ACTION

- **HAMMERING WITH ROTATION**
- **HAMMERING ACTION ONLY**
- **ROTATION ONLY**

CHISEL and CHISEL ADAPTER

Use with hammering action only

Chisel Adapter

Chisel Adapter **Catalog No. 48-03-3620**
Fastens to nose of tool

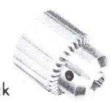
Chisel ¾ x 4½ x 7

Chisel **Catalog No. 48-62-0300**
Use retaining spring 49-68-0075.

½" INDUSTRIAL CHUCK and ADAPTER

Use with Rotation only

Adapter



½" Chuck

Chuck Adapter **Catalog No. 48-03-3590**
"A" taper shank. ½"-20 threaded end.

½" Jacobs Chuck **Catalog No. 48-66-1280**
Chuck Key No. 48-66-3280 included.

"A" Taper Adapter

Dust Shield

Retaining Spring

MISCELLANEOUS

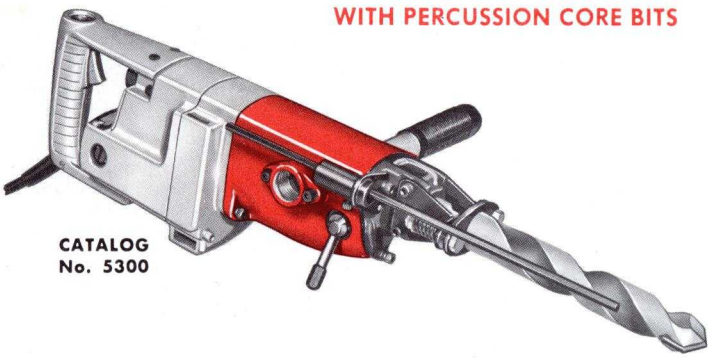
Catalog No	Description
48-03-3610●	"A" Taper Bit Adapter
48-86-0050●	Drift Key for above
49-96-0080●	Socket Wrench for Depth Gauge
49-62-0080●	Dust Shield
49-08-0150●	3 oz. Lubricant for Mechanism
48-55-0700●	Steel Carrying Case
49-68-0075	Retaining Spring
49-08-0500	½ lb. Can "A" Grease For Gears
49-08-0800	1 lb. Can "A" Grease For Gears

●Same as furnished with Tool.

1½" ROTARY HAMMER

Fastest Drilling Rotary Hammer On The Market

DRILL TO 2½" DIAMETER WITH PERCUSSION CORE BITS



CATALOG No. 5300

NO HOURLY OR DAILY OILING GREASE ONLY EVERY 2 TO 3 MONTHS DEPENDING UPON AMOUNT OF USE

For Percussion Carbide Bit Drilling in concrete and masonry ¼" thru 1½" dia. holes • Core Drilling 1¼", 1½", 1¾", 2" and 2½" holes • for Shell Anchors • Drills Steel to ½" diameter • Hammer Tools for chiseling, channeling, demolition work, chipping, scaling, slotting and tuck-pointing.

The MILWAUKEE 1½" Rotary Hammer is the most dependable and versatile Rotary Hammer you can buy. It is designed for rugged use and long life. Hammer mechanism is a practical combination of heavy spring and cam action. The lift cam is counter balanced to minimize tool vibration. Hammering ram is made of tool steel, precision ground and hardened. The ram is spring loaded and free floating. This mechanism will outlast any semi-pneumatic, piston type hammer. "In-Line" design of the Rotary Hammer prolongs motor and bearing life . . . Ball and roller bearings on all rotating shafts . . . Triple gear reduction . . . Heat treated gears and hardened shafts. During idling periods, shock of ram is absorbed by 6 disc springs protecting components. Armature bearings are supported by flat neoprene washers which prevent transmission of shock to the armature. Large fan and special vents provide maximum motor cooling.

CATALOG No. 5300 ROTARY HAMMER includes Rotary Hammer in steel carrying case, depth gauge, pipe handle, 2 dust shields, 1 lb. can of grease and hammer tool adapter assembly.

CATALOG No. 5305 ROTARY HAMMER KIT same as above. Also includes a scaling chisel, slotting chisel, mortar chisel, 11" bull point, 11" cold chisel, "A" and "B" taper chucks, ¼"x4", ⅜"x4½", 7/16"x4½", and ½"x4½" "A" taper bits, a ¾"x8¾" "B" taper bit and a drift pin.

SPECIFICATIONS

115 VOLTS

Catalog No.	R.P.M.			Blows Per Min.		Length	Net Weight	Shpg. Weight
	Light Blow	Heavy Blow	Rotation Only	Light Blow	Heavy Blow			
5300 5305	700	600	850	3800	3250	18"	19¾ lbs.	45 lbs. 52 lbs.

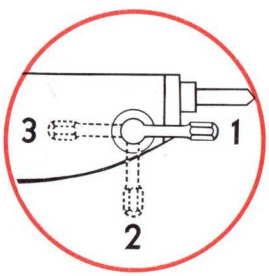
CONVERSION KIT

CATALOG No. 48-62-0205 Additional accessories to convert No. 5300 to No. 5305 as itemized above the specification table.

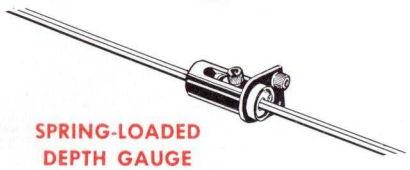
SPECIAL FEATURES

EXCLUSIVE 5-WAY ACTION

- **Rotation with heavy hammer blow**
- **Rotation with light hammer blow**
- **Rotation without hammering**
- **Hammering with light blow**
- **Hammering with heavy blow**



The shift lever repositions the cam which operates the hammer mechanism. Can be used freely because it does not engage or disengage gears. In No. 1 position the tool operates with rotation only. Use with industrial ½" chuck for drilling wood or metal. No. 2 position produces rotation and light hammering action. Use with percussion carbide-tip bits up to ½" diameter and larger when drilling soft materials. No. 3 position produces rotation with heavy hammering action. Use with percussion carbide-tip bits ½" and larger. For hammering action without rotation, use the tool adapter assembly. This fits into the nose of the tool to accommodate hammer tools such as chisels or bullpoints. Use the light blow (position 2) for scoring or when working in soft materials and the heavy blow (position 3) where full power is required.



SPRING-LOADED DEPTH GAUGE

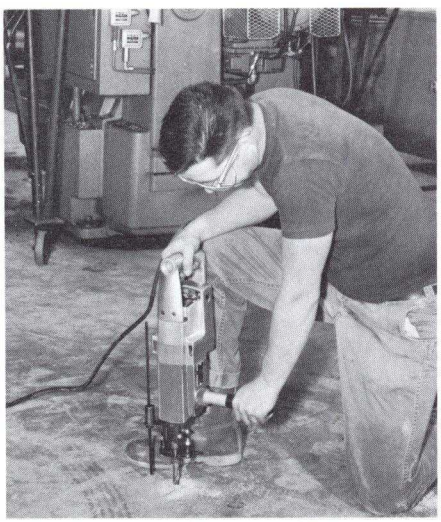
Guide rod locks under spring tension to maintain accurate setting when bit reaches pre-set depth. Simple to adjust and easily removed when tool is used for other work.

ADJUSTABLE SAFETY CLUTCH

Protects operator, tool and bit. When bit jams or strikes re-bar, clutch slips — rotary action stops — prevents jolt to operator and excessive wear on bit shank or nose bushing. If clutch slips too readily, adjustment is easily made.

3-POSITION PIPE HANDLE

Offers ease in handling for use in any position. Pipe Handle can be used on either side of the motor housing or on top of switch handle.



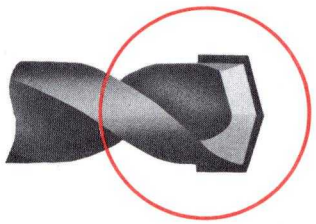
Drilling 1" anchor holes in concrete for the installation of heavy machinery is done fast and accurate with the 5300 Rotary Hammer.

See pages 24 and 25 for Percussion Carbide-Tip Bits, Hammer Tools and other accessories for the 5300 Rotary Hammer.

PERCUSSION CARBIDE-TIP BITS

For Model 5300 Rotary Hammer

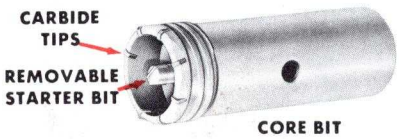
For High Speed, Low Cost Drilling in Concrete and Masonry



HIGHEST QUALITY CARBIDE TIP BRAZED TO STEEL BODY

Specially designed for continuous use with heavy blow and rotary action, MILWAUKEE Percussion Carbide-Tip Bits have heat-treated alloy steel shanks and bodies for durability and long life. Wide spiral with shallow oval flutes removes dust fast as it drills, resists packing and assures maximum drilling efficiency. Highest quality carbide tip is brazed to steel body, resists dulling, stays sharp longer and can be resharpened often.

ROTARY PERCUSSION CORE BITS



MILWAUKEE Core Bits have heat-treated steel bodies with durable carbide tips. Specially designed for fast, accurate drilling with heavy hammering and rotary action.

CORE BITS

1¼" x 6"	**Cat. No. 48-20-5250**
1½" x 6"	**48-20-5510**
1¾" x 6"	**48-20-5760**
2" x 6"	**48-20-6010**
2½" x 6"	**48-20-6050**

Above includes Core Bit and Starter Bit. Order Core Bit Adapter separately.

½" STARTER BITS

Same as furnished with Core Bits.

For 1¼"	**Cat. No. 48-20-6105**
For 1½"	**48-20-6110**
For 1¾"	**48-20-6120**
For 2"	**48-20-6130**
For 2½"	**48-20-6140**

CORE BIT ADAPTERS

Order Separately

For 1¼" Core Bit
Cat. No. 48-03-3515

For 1½", 1¾", 2" and 2½" sizes
Cat. No. 48-03-3505
Above also fit Skil 726

EXTENSIONS

For 1¼" Core Bit
12" Long **Cat. No. 48-95-6065**

For 1½", 1¾", 2" and 2½" Core Bits
7½" long **Cat. No. 48-95-6005**
12" long **Cat. No. 48-95-6055**

AVAILABLE IN TWO TYPES

GENERAL PURPOSE BITS are used for deep hole drilling. No adapter is required. One piece bits fit directly into the nose of the hammer. Sizes range from ½" to 1½" diameter. Shorter bits with "A" or "B" taper shanks are used with taper chucks. Bits with taper shanks are economical and recommended where only shallow holes are needed.

FLAT TIP BITS are used for drilling accurate holes for anchors. Available in one piece or "B" taper shanks and in diameters from 7/16" to 1⅛". Drill true holes with virtually flat bottoms for maximum seating and holding of anchors and expansion shields. Holes can be drilled to preset depth through use of depth gauge on Rotary Hammer.

GENERAL PURPOSE BITS

ONE PIECE

7/16" HEX. x 2⅛" LONG SHANK

Bit Dia. (in.)	Catalog No.	Overall Length (in.)	Max. Drilling Depth (in.)
½	**48-20-1500**	10	4½
½	**48-20-1502**	16	10½
½	**48-20-1504**	22	16
9/16	**48-20-1560**	12	6½
5/8	**48-20-1630**	10	4½
5/8	**48-20-1632**	16	10½
5/8	**48-20-1634**	22	16
11/16	**48-20-1690**	12	6½
¾	**48-20-1750**	10	4½
¾	**48-20-1752**	16	10½
¾	**48-20-1754**	23½	18
⅞	**48-20-1880**	12	6½
⅞	**48-20-1882**	23½	18
1	**48-20-2000**	12	6½
1	**48-20-2002**	23½	18
1⅛	**48-20-2130**	12	6½
1⅛	**48-20-2132**	23½	18
1¼	**48-20-2250**	12	7
1¼	**48-20-2251**	23½	18
1⅜	**48-20-2370**	12	7
1⅜	**48-20-2372**	23½	18
1½	**48-20-2500**	15	10
1½	**48-20-2502**	23½	18

FLAT TIP BITS

ONE PIECE

7/16" HEX. x 2⅛" LONG SHANK

Bit Dia. (in.)	Catalog No.	Overall Length (in.)	Max. Drilling Depth (in.)
7/16	**48-20-4440**	8	2¾
15/32	**48-20-4470**	8	2¾
½	**48-20-4500**	8	2¾
9/16	**48-20-4560**	8	2¾
5/8	**48-20-4650**	8	2¾
11/16	**48-20-4690**	8	2¾
¾	**48-20-4750**	9	4
27/32	**48-20-4840**	9	4
⅞	**48-20-4870**	9	4
1	**48-20-5000**	12	7
1⅛	**48-20-5130**	12	7

FLAT TIP "B" TAPER

USE WITH "B" TAPER CHUCKS

Bit Dia. (in.)	Catalog No.	Overall Length (in.)	Max. Drilling Depth (in.)
7/16	**48-20-7440**	8	5½
15/32	**48-20-7470**	8	5½
½	**48-20-7500**	8	5½
9/16	**48-20-7560**	8	5½
5/8	**48-20-7620**	8	5½
11/16	**48-20-7690**	8	5½
¾	**48-20-7750**	9	6½
27/32	**48-20-7840**	9	6½
⅞	**48-20-7870**	9	6½
1	**48-20-8000**	9	6½
1⅛	**48-20-8130**	9	6½

TAPER SHANK BITS

USE TAPER CHUCKS

"A" TAPER BITS
USE "A" TAPER CHUCKS

Bit Dia. (in.)	Catalog No.	Overall Length (in.)	Max. Drilling Depth (in.)
¼	**48-20-3250**	4	2
¼	**48-20-3252**	6	4
5/16	**48-20-3310**	4½	2½
5/16	**48-20-3312**	6	4
⅜	**48-20-3380**	4½	2½
⅜	**48-20-3381**	9	7
⅜	**48-20-3382**	12	10
7/16	**48-20-3440**	4½	2½
15/32	**48-20-3470**	4½	2½
½	**48-20-3499**	9	7
½	**48-20-3500**	4½	2½
½	**48-20-3501**	12	10
9/16	**48-20-3559**	5	3
9/16	**48-20-3560**	9	7
5/8	**48-20-3619**	5	3
5/8	**48-20-3620**	9	7
5/8	**48-20-3621**	12	10
11/16	**48-20-3690**	5	3
¾	**48-20-3790**	5½	3½
¾	**48-20-3795**	9	7
⅞	**48-20-3860**	5	3

"B" TAPER BITS
USE "B" TAPER CHUCKS

Bit Dia. (in.)	Catalog No.	Overall Length (in.)	Max. Drilling Depth (in.)
11/16	**48-20-3680**	9	6¾
¾	**48-20-3750**	9	6¾
27/32	**48-20-3840**	9	6¾
⅞	**48-20-3870**	9	6¾
1	**48-20-3100**	9	6¾

TAPER CHUCKS

TAPER CHUCKS FOR "A" & "B" TAPER SHANK BITS

Drift pin included with each chuck.

Taper Chuck	Model Number	Catalog Number
"A" "B"	MILWAUKEE 5300	**48-66-6500** **48-66-6501**
"A" "B"	B & D 717-718-719	**48-66-6506** **48-66-6505**
"A"	Skil 706	**48-66-6708**
"A"	Skil 726	**48-66-6500**
"B"	Skil 726	**48-66-6501**
"A"	Skil 728	**48-66-6709**
"B"	Skil 728	**48-66-6710**
"B"	Skil 736	**48-66-6507**
"A"	Skil 1706	**48-66-6708**
Drift Pins	when ordered separately	**48-86-0090*** **48-86-0100**

*Use with Chuck No. 48-66-6708

ROTARY HAMMER ACCESSORIES

For Model 5300 Rotary Hammer

Chucks for Tooth Anchors • Hammer Tools for Chiseling, Channeling, Demolition Work, Chipping, Scaling, Slotting and Tuckpointing • Industrial 3-Jaw Chuck for Drilling Wood and Metal • Star Drills and Star Drill Chuck

HAMMER TOOLS

Made of Highest Quality Forged Steel
Use With Tool Adapter Assembly

SCALING CHISEL

1¾" x 5½" x 10" long

For removing weld spatter or scale and cutting between drilled holes in concrete for large openings.
Catalog No. 48-62-0210

MORTAR CUTTING CHISEL

1" x 5" x 11" long

For removing old mortar for tuckpointing or caulking and seaming.
Catalog No. 48-62-0230

COLD CHISELS

¾" x 11" or 18" long

For edging, chipping or channeling.
Cat. No. 48-62-0250 11" lg.
Cat. No. 48-62-0252 18" lg.

BULL POINTS

11" or 18" long

For demolition work.
Cat. No. 48-62-0240 11" lg. Net
Cat. No. 48-62-0248 18" lg. Net

SLOTTING CHISEL

1⅛" x 5½" x 11" long

For slotting and cutting between drilled holes in concrete and masonry.
Catalog No. 48-62-0220

INDUSTRIAL CHUCK and ADAPTER

Chuck Adapter
Catalog No. 48-03-3000

½" Chuck
Catalog No. 48-66-1280

Used with rotation only. Chuck threads on chuck adapter (½"-20 thread). Capacity in steel ½". Use as regular drill for other applications. Chuck key No. 48-66-3280 included with chuck (see page 9). Order both chuck and chuck adapter.

DUST SHIELD

Catalog No. 49-62-0070
Same as furnished with each tool. Keeps foreign matter from entering nose of tool. Prevents grease contamination.

TOOL ADAPTER ASSEMBLY

Catalog No. 48-03-0050
Same as furnished with each tool. Must be used with hammer tools for hammering action only.

TOOTH ANCHOR CHUCKS

For Self-Drilling Anchors

Use with "B" Taper Chucks Shown Below

Catalog No.	Description
48-66-6520	3/16"-1/4"
48-66-6540	FOR 5/16" BOLT 3/8" SIZE 1/2" 5/8"
48-66-6560	O.D. OF ANCHOR 7/16" 15/32" 9/16" 11/16" 27/32"
48-66-6580	
48-66-6600	

For final setting of anchors ½" and ⅝" use hand hammer and setting tool.

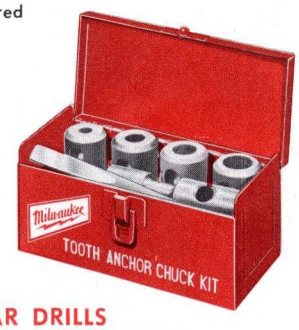
For Automatic Rotation
"B" Taper Chuck Required
Catalog No. 48-66-6501
Drift Pin 48-86-0100 included

For Manual Rotation
"B" Taper Chuck Assembly Required
Catalog No. 48-03-3600
Drift Pin 48-86-0100 included

TOOTH ANCHOR CHUCK KIT

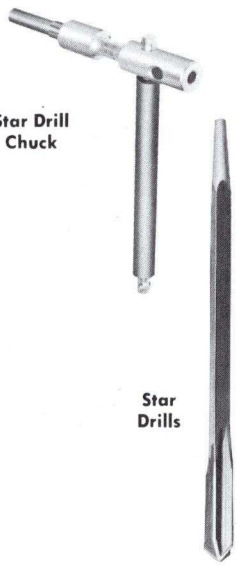
Catalog No. 49-22-2000

Tooth Anchor Chucks for bolt sizes 3/16", ¼", ⅜", ½" and ⅝"; "B" Taper Chuck (48-66-6501) with Drift Pin (48-86-0100) and steel case.



STAR DRILLS and STAR DRILL CHUCK

For Manual Rotation with Hammering Action Only



Catalog No.	Description
48-88-0251	¼" x 6"
48-88-0252	¼" x 12"
48-88-0310	5/16" x 6"
48-88-0311	5/16" x 12"
48-88-0370	⅜" x 6"
48-88-0371	⅜" x 12"
48-88-0430	7/16" x 6"
48-88-0500	½" x 6"
48-88-0501	½" x 12"
48-88-0620	⅝" x 6"
48-88-0621	⅝" x 12"
48-88 0750	¾" x 6"
48-88-0751	¾" x 12"
48-88-0870	⅞" x 6"
48-88-0871	⅞" x 12"
48-88-1000	1" x 6"
48-88-1001	1" x 12"
48-88-1120	1⅛" x 6"
48-66-6050	Star Drill Chuck*
48-86-0090	Drift Pin

*Drift Pin Included with Chuck.

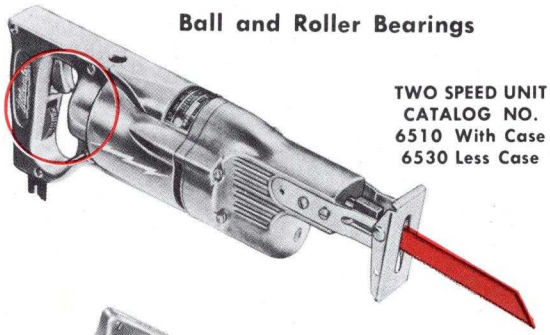
MISCELLANEOUS

48-55-0600	Carrying Case Only (for 5300 Rotary Hammer)
48-86-0100	Drift Pin
49-08-0500	½ lb. Can "A" Grease
49-08-0800	1 lb. Can "A" Grease

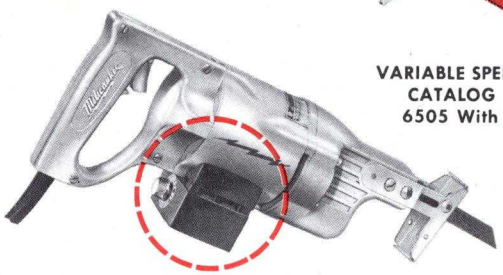
SAWZALL®

All-Purpose Electric Hacksaws

Ball and Roller Bearings



TWO SPEED UNIT
CATALOG NO.
6510 With Case
6530 Less Case



VARIABLE SPEED UNIT
CATALOG NO.
6505 With Case

TWO SPEED UNIT
WITH DURABLE
THERMOPLASTIC
HANDLE
CATALOG NO.
6511 With Case

SPECIFICATIONS 115 volts

Catalog No.	Length of Stroke	Overall Length (Inches)	Net Wgt. (lbs.)	Shp. Wgt. (Lbs.)
Two Speed Unit — 2400 and 1700 Strokes Per Min.				
6510 with case	¾"	15⅛"	6¾	18
6530 less case				10
6511 with case		16"	7	18
Variable Speed Unit 1100 to 2550 Strokes Per Minute 115 Volt 60 Cycles AC Only				
6505 with case	¾"	15⅛"	7	18

Standard equipment includes Sawzall Blade Card 49-22-1120 for wood and metal — total of 11 blades. Also included are Offset Blade Adapter, socket wrench and holder, extra blade clamp and screw.

OUTSTANDING FEATURE

Reciprocating Action

A simple and rugged mechanism built to stand large thrust loads in equal amount from either direction. Only three major moving parts. Heavy-duty bearings of the highest quality.

AVAILABLE IN TWO SPEED AND VARIABLE SPEED MODELS

The first powerful, lightweight, portable electric reciprocating saw in a complete unit, the SAWZALL, with its patented mechanism, has proven its ruggedness and versatility for over fifteen years of continuous field use. For Plumbers, Heating and Air Conditioning Contractors, Electricians, Builders, Steel Fabricators, Maintenance Men and Manufacturers. Cuts any shape in wood, plaster, metal, plastics, masonite, builder's transite and other sawable materials . . . plunge cuts in wood and other resilient stock . . . no starting hole required.

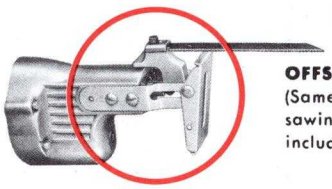
TWO SPEED SAWZALL®

Models available with two speeds to meet specific cutting requirements. High speed of 2400 strokes per minute for fast sawing of wood or composition materials . . . low speed of 1700 strokes per minute for maximum blade life when cutting metals. A 2-speed heavy-duty switch is conveniently located for easy switching to high or low speed as desired. Catalog No. 6511 has the same features as No. 6510 but with durable thermoplastic handle.

VARIABLE SPEED SAWZALL®

Dial any speed from 1100 thru 2550 strokes per minute. Low speeds for increased blade life in cutting most hard materials and higher speeds for fast sawing of soft woods and composition materials. Control mechanism is full wave rectifier type with components transistorized for long life. Converts AC to DC giving full 115 volt sawing power on all speed ranges.

ACCESSORIES



OFFSET BLADE ADAPTER Catalog No. 48-03-2000 (Same as furnished with each Sawzall). For close quarter sawing. Extra Blade Clamp and Blade Clamp Screw included.

WRENCH, SCREW AND CLAMP KIT

Catalog No. 49-22-5080 consists of 10 blade clamp screws, 2 blade clamps and 2 socket wrenches.

WRENCH AND SCREW KIT

Catalog No. 49-22-5050 consists of 25 socket wrenches and 50 blade clamp screws.

SAWZALL® BLADE CARD

Catalog No. 49-22-1120 consists of one each of 48-00-(1011, 1023, 1031, 1041, 1064 and 1121) for wood, and 48-00-(1102, 1162, 1171, 1174 and 1182) for metal — a total of 11 blades.

Use Only GENUINE SAWZALL® BLADES

- Custom Milled Teeth, Set and Hardened for Maximum Performance at the Exact Speed of the Sawzall.
- Tang Designed to Secure Blade in Blade-Clamp at the Proper Angle for Maximum Cutting Efficiency.

ECONOMY BLADE ASSORTMENT

Catalog No. 49-22-1080

A special package value includes 45 Sawzall Blades of 18 most popular types for cutting wood or metal. Consists of five each catalog Nos. 48-00-(1063, 1064, 1174); three each 48-00-(1061, 1102, 1183); two each 48-00-(1023, 1024, 1041, 1051, 1062, 1103, 1121, 1141, 1173); one each 48-00-(1031, 1002, 1012).

MISCELLANEOUS

Blade Clamp Wrench		**Catalog No. 49-96-0070**
Rubber-Flex Wrench Holder		**Catalog No. 48-66-4080**
Steel Carrying Case		**Catalog No. 48-55-1560**
Type "A" Grease for Gear Case	½ lb. can	**Catalog No. 49-08-0500**
	1 lb. can	**Catalog No. 49-08-0800**
Type "B" Grease for Mechanism	½ lb. can	**Catalog No. 49-08-0600**
	1 lb. can	**Catalog No. 49-08-0900**

SAWZALL® BLADES

PURPLE — HIGH ALLOY STEEL — A — Zip Cut

ORANGE — HIGH ALLOY STEEL — B — Tuff Back

GREEN — HIGH ALLOY STEEL — C — Spring Back

SILVER — SPRING STEEL — D — General Purpose

BLACK — SPRING STEEL — E — Sawzall Deluxe

WHITE — HIGH ALLOY STEEL — F — Plaster-Cutting

BLACK — BAND SAW STEEL — G — All-Purpose

BLACK — TUNGSTEN CARBIDE — H — Tungsten Carbide

BLACK — TUNGSTEN CARBIDE — I — Tungsten Carbide

SILVER — SPRING STEEL — J — Special (KNIFE)

SILVER — SPRING STEEL — K — Special (WAVY)

SILVER — SPRING STEEL — L — Special (SCALLOP)

RED — HIGH SPEED STEEL — M — Metal Scroll

ORANGE — HIGH ALLOY STEEL — N — Twin Edge

SEE CHART — O — Wood Scroll

YELLOW — HIGH SPEED STEEL — P — Metal Scroll

RED — HIGH SPEED STEEL — Q — HIGH SPEED Metal Cutting

BLUE — HIGH SPEED STEEL — R — Metal Cutting FLEXIBLE BACK

GREEN — HIGH ALLOY STEEL — S — Pruning

FOOTNOTE REFERENCE

- ● All blades have teeth set to cut on up stroke except blades 48-00-1202, 48-00-2064 and 48-00-2066. These 3 blades have teeth set to cut on down stroke and are recommended when sawing veneers or plywood to prevent splintering on the finish side.
- ★ Some varieties of stainless steel can be cut with these blades.
- † With 2-Speed and Variable Speed SAWZALL use slower speeds.

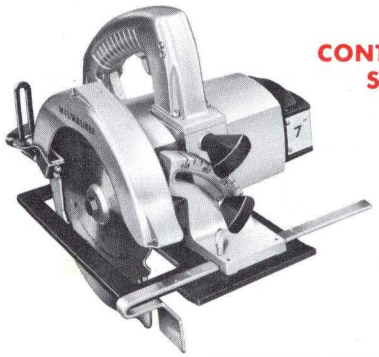
Carbide blades cut on both the up and down strokes giving better edge finish.

Type	Key	Catalog No.	Teeth per Inch	Lgth. (In.)	Recommended for Cutting	Quan per Box
Roughing-In Blades, Wood and Plaster	A	48-00-1001 48-00-1002 48-00-1003	3	3½ 6 12	Nail free woods . . . fastest cutting . . . fully hardened to withstand roughest sawing. Teeth, fleam sharpened to shear, not tear wood fibers. Canted shank provides for faster feed, deeper cut and ideal return stroke clearance.	10 10 5
	B	48-00-1011 48-00-1012 48-00-2011	6	3½ 6 12	Nail embedded woods and composition materials . . . 12" blade affords flexibility for flush cutting.	10 10 5
		48-00-1013 48-00-1014 48-00-2012	10	3½ 6 12	For all woods . . . nail embedded woods, composition materials and light gauge non-ferrous metals.	10 10 5
		48-00-2013	18	12	Nail embedded woods . . . for opening crates, boxes, removing wood siding and shingles.	5
	C	48-00-1021 48-00-1022 48-00-1023 48-00-1024	6 6 10 10	3½ 6 3½ 6	All woods including nail-embedded woods. Hardened and tempered to resist bend or twist. Even after severe twist, blade springs right back to its original shape.	5
	D	48-00-1031 48-00-1032 48-00-1033	7	6 12 9	General roughing-in work in wood and nail embedded woods.	5
	E	48-00-1041 48-00-1042 48-00-1043	6	6 12 9	Wood cutting . . . shear tooth design . . . fleam sharpened for shearing action . . . very fast cutting, long blade life.	5 3 4
	F	48-00-1051 48-00-1052	5	3½ 6	For plaster, plaster with metal lath, plasterboard. Cuts on both forward and backward stroke.	10
	G	48-00-1061 48-00-1062	6	3½ 6	For nail-free woods, plywood, asbestos and fiberboard . . . A general purpose economy type blade.	10
		48-00-1063 48-00-1064 48-00-2064●	10	3½ 6 6	Nail embedded woods, plywood, insulating board, and asbestos. Blade edge hardened.	10
		48-00-1065 48-00-1066 48-00-2066●	18	3½ 6 6	For nail embedded woods, opening wooden crates or boxes, removing wood siding or shingles. Teeth are fully hardened.	10
		48-00-1067 48-00-1068	24	3½ 6	For light gauge non-ferrous metals.	10
Tungsten Carbide	H	48-00-1410	Scroll 0	3½	Medium grit; for brick, carbon, claypipe, chalkboard, plywood, hardwood veneer plywood.	3
	I	48-00-1400† 48-00-1420†	0	4 6	Coarse grit; for fiber glass (epoxies, polyesters, silicones, malamines). Nail embedded wood, plaster with nails, asbestos cement.	3
Specialty Blades	J	48-00-1071	Knife	4	Sponge, rubber, leather, felt and other resilient materials.	10
	K L	48-00-1081 48-00-1091	Wavy Scallop		Corrugated cardboard, laminated fiberglass, tape and sheets, paper, cork and rubber.	
Metal Scroll	M	48-00-1101 48-00-1102★ 48-00-1103★	14 18 24	2½	Scroll cutting metals. 14 tooth for ⅛" and over; 18 tooth—18 ga. to ⅛"; 24 tooth—lighter than 18 ga.	10
Roughing In	N	48-00-1131	7	4⅛	Plunge cutting wood and sawing back to a line. Hardened teeth and flexible center permits sawing in close-quarters. High resistance to bending or breaking. Ideal for roughing-in.	5
Wood Scroll	O	48-00-1121 48-00-1151	6	3⅝	Sawing intricate shapes and scroll cuts in wood and synthetic structural materials. (1121) a carbon steel economy blade (Gray) (1151) a high speed steel Deluxe blade (Black).	5
		48-00-1141	7	3⅝	Rough cutting irregular contours in wood, fiberboard, asphalt and asbestos. Spring steel blade. (Silver).	10
		48-00-1201 48-00-1202●	6	3⅝	High speed steel, hollow ground . . . De Luxe type . . . for fast, smooth finish scroll cuts in wood, plastics, formica and fiberglass. (Silver with black shank).	5
Metal Scroll	P	48-00-1161 48-00-1162	10 14	3⅝	Heavy gauge metal, hard rubber and fiber.	10
Metal Cutting	Q	48-00-2175	10	8	Cast iron, steel or copper pipe to 4" dia., and also metal decking materials.	5
		48-00-1171 48-00-1172 48-00-1179	14	2½ 4 6	Metal heavier than ⅛" thick, angles, bar stock, hard rubber and fiber.	10
		48-00-1173★ 48-00-1174★ 48-00-2170★	18	2½ 4 6	Heavy gauge metals, conduit, pipe, channels and tubing.	10
		48-00-1175★ 48-00-1176★ 48-00-2171★	24	2½ 4 6	Metals lighter than 18 gauge sheet, trim and tubing.	10
		48-00-1177 48-00-1178	32	2½ 4	Very light gauge metals . . . sheet trim and tubing.	10
	R	48-00-1181 48-00-1182	14	4 6	Heavy gauge metals, angles, bar stock ⅛" thick and above. Hard rubber. Teeth are fully hardened. Hardening of blade back limited to provide required resiliency.	10
		48-00-1183★ 48-00-1184★	18	4 6	Same characteristics as blades 1181 and 1182 except finer teeth for fast cutting of metals 18 gauge to ⅛" thick conduit, pipe, channels and tubing.	10
Pruning	S	48-00-1302	6	12	Pruning trees, smooth sawing green woods. Deep tooth design, fleam filed. Clean cuts wood fibers.	5

SOLD IN BOX LOTS ONLY — SEE QUANTITY PER BOX COLUMN

CIRCULAR SAWS

Powerful • Rugged • Dependable
Built for Continuous Use



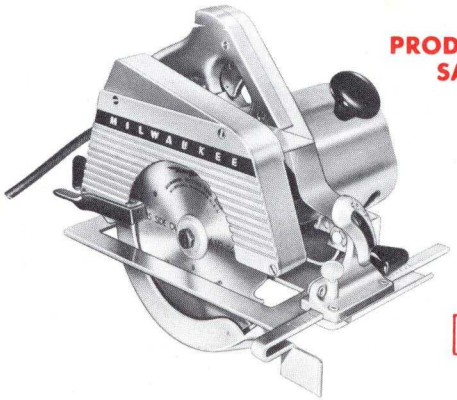
CONTRACTOR SAWS

1 1/3 HP

6½" and 7" MODELS

SPECIAL FEATURES

• Only 10½ lbs. • 2 Position Switch Control • Ball and Roller Bearings • Quick, Accurate Miter Adjustments • Cut 2" Dressed Lumber at 45° • Wide, Sturdy Wrap-Around Shoe • Carpenter Square Construction • Enclosed, Dustproof Switches • Telescoping Guard with Snap-Back Action.



PRODUCTION SAWS

1 3/4 HP

IN 3 POPULAR BLADE SIZES

6½" 7¼" 8¼"

SPECIAL FEATURES

• Powerful Motor Delivers 1¾ H.P. Output • Ball and Roller Bearings • Clear View Line Sighting • One Piece Wrap-Around Shoe for Rigid Support • Safe Telescoping Guard with Snap-Back Action • Carpenter Square Construction • Simple Miter and Depth Adjustments • Split Handle Design for Easy Access to Electrical Connections.

WORM DRIVE SAW

2 HP

7½"

SPECIAL FEATURES

• Wide Race and Oversized Ball Bearings • Large Machined Faces on Motor and Gear Housings Assure Solid Fit • Handles Not Part of Motor Housing • Rigid Steel Wrap-Around Shoe • Fast, Positive Miter and Depth Adjustments • Oil Plug at Side of Gear Case for Easy Fill • Up to 1" Lumber Can Be Used on Either Side of Shoe When Ripping Large Panels.

CONTRACTOR SAWS

The best lightweight Saws ever built for the contractor. Handle easily in any position with ideal visibility for fast, accurate sawing. Helical-cut hardened steel gears for smooth operation. Balanced handle control with top trigger switch for fast cut-off work and back trigger for longer reach.

115 volts **SPECIFICATIONS** 5/8" Arbor

Blade Size	Catalog No.	No load Speed (RPM)	Depth of Cut at 90°	Max. Depth of Cut at 45°	Net Wgt. (lbs.)
6½"	**6292** with case **6293** less case	5600	0 to 2⅛"	1¾"	10½
7"	**6330** with case **6331** less case	5400	¼ to 2⅜"	1⅞"	10½

Shp. Wt. with case 25 lbs., less case 16 lbs.
Standard Equipment Includes Combination Saw Blade, Rip Guide and 1 ea. 9/16" & 1⅜" Wrenches.

Exclusive

Contractor Saws and Production Saws have a spring-loaded clutch drive to protect gears against backlash and wear. More than doubles gear life.

PRODUCTION SAWS

Designed for reliable year after year performance in heavy construction and industrial maintenance . . . widely used for sawing heavy hardwood planking and frames for concrete construction. Helical-cut, hardened steel gears for smooth running. Contour handle for balance and ease in handling. Large grease chamber provides maximum lubrication.

115 volts **SPECIFICATIONS** 5/8" Arbor

Blade Size	Catalog No.		No load Speed (RPM)	Depth of Cut at 90°	Max. Depth of Cut at 45°	Net Wgt. (lbs.)
6½"	**6300** **6320**	with case less case	6400	0 to 2 5/32"	1¾"	14½
7¼"	**6340** **6360**	with case less case	5800	0 to 2 17/32"	2 1/32"	14¾
8¼"	**6380** **6400**	with case less case	5100	¾" to 3 1/32"	2⅜"	15

Shp. Wt. with case 34 lbs., less case 22 lbs.
Standard Equipment Includes Combination Saw Blade, Rip Guide and 1 ea. 9/16" & 1⅜" Wrenches.

WORM DRIVE SAW

Motor and worm drive gearing develop 2 H.P. at the blade. Designed for ease of handling with ideal balance. Retractable guard operates efficiently under any condition. Exhaust air directed over gear case keeps saw cool and line of sight clear. Saw equipped with diamond shaped arbor. Adapters available for blades with 5/8" arbor hole.

115 volts **SPECIFICATIONS** Diamond Arbor

Blade Size	Catalog No.	No load Speed (RPM)	Depth of Cut at 90°	Max. Depth of Cut at 45°	Net Wgt. (lbs.)
7½"	**6370** less case **6371** with case	4400	0 to 2 15/32"	2 1/16"	15¾

Shp. Wt. with case 34 lbs., less case 22 lbs.
Standard Equipment Includes Combination Blade, 9/16" Blade Wrench, Rip Guide and Lubricant.

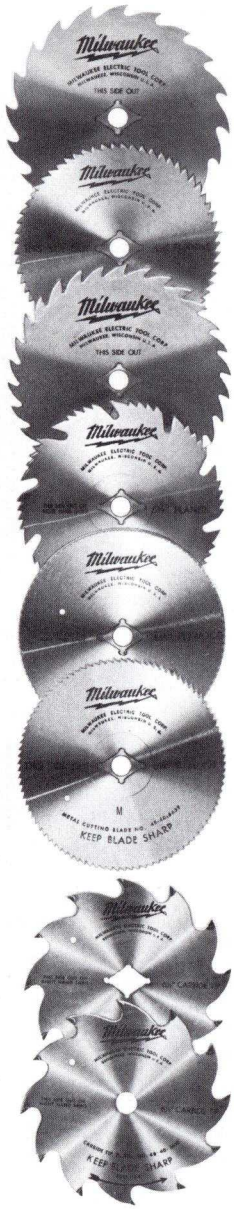
Exclusive

Hardened and precision ground steel worm meshes with alloy bronze gear for long life and smooth operation under all sawing conditions.

CIRCULAR SAW ACCESSORIES

Highest Quality for Best Performance

MILWAUKEE saw blades are made of chrome nickel steel — precision ground, tempered, set and filed. Each blade is perfectly balanced and tensioned for fast, smooth, accurate sawing. Carbide-tipped blades are chrome plated — cut fast and smooth, stay sharp up to 50% longer than steel-tipped blades. Ideal for cutting wood, Transite, Masonite, asbestos, Formica, composition siding and roofing. Abrasive cutting wheels for stone or concrete and metal are safety nylon reinforced — bonded of uniform grit and break resistant.



Blades 1 thru 6 have ⅝" arbor hole with knockout for diamond arbor.

1. COMBINATION . . . for general sawing. Rip or crosscut without changing blade.

2. CROSSCUT - FLOORING . . . cut hardwoods, flooring and crating fast. Close-set teeth produce smooth finish and hold edge longer when encountering nails.

3. RIP - CUT . . . for high speed production sawing. Hook shaped teeth have alternate set filed square across to cut and not split fibers.

4. PLANER . . . hollow ground to produce fine finish or smooth end grain. Minimizes planing and sanding.

5. PLYWOOD . . . for plywood, wallboard, masonite, light gauge non-ferrous metals, thin plastics. Fine teeth prevent tearing; hold sawdust to minimum.

6. NON - FERROUS . . . hollow ground for cutting metals such as aluminum, magnesium, copper and brass.

Blades 7 and 8 have either a ⅝" or diamond arbor hole. See table for arbor hole.

7. CARBIDE - TIPPED . . . for wood, Transite, Masonite, asbestos, Formica, composition siding, roofing. Chrome plated. Stay sharp up to 50% longer than steel-tipped blades.

8. ABRASIVE CUTTING WHEELS . . . for stone, concrete and metal. Safety reinforced nylon . . . bonded of uniform grit and break resistant.

BLADE ADAPTERS

Spindle flanges to convert arbors for blades with diamond shaped hole or for ⅝" hole.

To convert diamond arbor to 5/8" arbor for Worm Drive Saw. (Steel blades only)

Inner Adapter	Outer Adapter
Catalog No.	**Catalog No.**
48-03-2400	**48-03-2450**

(both required)

To convert 5/8" arbor to diamond arbor on other Saws.

Only Inner Adapter required

Catalog No. 48-03-2500

RIP FENCES

Catalog No.	For Saws
49-02-0050	Contractor and Production
49-02-0070	Worm Drive

STEEL CARRYING CASES

When ordered separately

Catalog No. 48-55-1050
For Nos. 6320, 6360, 6400

Catalog No. 48-55-1081
For Nos. 6293, 6331.

Catalog No. 48-55-1100
For No. 6370

SPECIFICATIONS

Blade Catalog No.	Blade Diam. (In.)	Number of Teeth
COMBINATION BLADES		
48-40-1653	6½	16
48-40-1655	6½	44
48-40-1722	7	18
48-40-1740	7¼	40
48-40-1752	7¼	18
48-40-1760	7½	20
48-40-1763	7½	40
48-40-1822	8¼	20
48-40-1825	8¼	44
CROSS CUT-FLOORING BLADES		
48-40-5655	6½	64
48-40-5725	7	70
48-40-5755	7¼	70
48-40-5765	7½	70
48-40-5825	8¼	80
RIP-CUT BLADES		
48-40-8654	6½	36
48-40-8724	7	30
48-40-8754	7¼	30
48-40-8764	7½	30
48-40-8824	8¼	30
PLANER BLADES*		
48-40-7656	6½	50
48-40-7661	7	55
PLYWOOD BLADES*		
48-40-4655	6½	150
48-40-4658	7	200
NON-FERROUS METAL CUTTING*		
48-40-6658	6½	80
48-40-6661	7	70

*For 6½" thru 8¼" Saws.

CARBIDE TIPPED BLADES

Catalog No.	Blade Dia. (Ins.)	Number of Teeth	Arbor Hole
48-40-3650	6½	12	⅝"
48-40-3700	7	12	⅝"
48-40-3750	7½	12	Diamond
48-40-3820	8¼	14	⅝"

ABRASIVE CUTTING WHEELS ⅛" THICK

Wheel Catalog No.	Diam. (Ins.)	Arbor Hole
For Stone or Concrete*		
49-92-3220	6	⅝"
49-92-4310	7	⅝"
49-92-4370	7¼	Diamond
49-92-5000	8	⅝"
For Metal*		
49-92-3020	6	⅝"
49-92-4300	7	⅝"
49-92-4380	7¼	Diamond
49-92-5010	8	⅝"

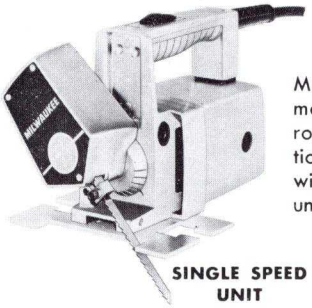
*For 6½" thru 8¼" Saws.

MISCELLANEOUS

Catalog No.	Description
49-48-0050	Protractor
49-96-6200	9/16" Utility Wrench
49-96-6400	1 3/8" Open End Wrench
49-08-0500	½ lb. Can "A" Grease
49-08-0800	1 lb. Can "A" Grease
OIL FOR WORM DRIVE SAW	
49-32-0050	½ pt. Oil
49-32-0060	1 pt. Oil
49-32-0070	½ gal. Oil

JIG-SAWS

Fast . . Powerful . . . Accurate



SINGLE SPEED UNIT

Most versatile Jig-Saw. Cuts wood, metal, plastics and composition materials. Lightweight—compact—powerful ¼ HP motor—ball and roller bearings on all rotating parts—cool running—rugged, vibration-free mechanism—perfect balance—excellent blade visibility with super sawdust blower to keep cutting lines clear. Single Speed unit with 3500 strokes per minute for general sawing.

VARIABLE SPEED UNIT

The Variable Speed Control unit permits dialing to any speed within the minimum and maximum speeds of 1400 to 3500 strokes per minute. Low speeds for increased blade life in cutting most hard materials and higher speeds for fast sawing of soft woods and composition materials. Control mechanism is full wave rectifier type with components transistorized for long life . . . delivers full power on all speed settings.

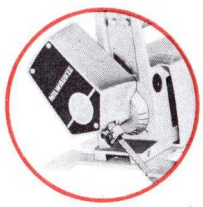
Available With or Without **STEEL CARRYING CASE** **Cat. No. 48-55-1070**

USE GENUINE MILWAUKEE JIG-SAW BLADES

Designed for best cutting efficiency with custom milled teeth set and hardened for maximum performance. Special tungsten carbide blades are available for cutting abrasive materials. Tang properly positions blade in the blade clamp. Universal ¼" tang fits most brands of jig saws.

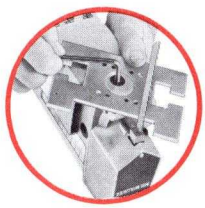
CATALOG NO.	Lgth. (In.)	Teeth per Inch	Quan per Pkg.	MILWAUKEE JIG-SAW BLADES RECOMMENDED FOR CUTTING
METAL CUTTING . . . High Speed Steel Blades.				
48-42-0100	2¾	12	5	Steel to ⅛", non-ferrous metals to ¼", Plastics, Asbestos, Fiberglass, rigid conduit, hard rubber and fiber.
48-42-0101				Same as above. 25% thicker for most severe applications.
48-42-0120		18		Metals 18 Ga. to 10 Ga., tubing, plastics.
48-42-0140		21		Metals lighter than 18 Ga., thin wall tubing, slate, formica.
WOOD CUTTING . . . GENERAL PURPOSE . . . High Carbon Steel.				
48-42-0200	3⅛	6	5	Pocket and roughing cuts on heavier sections. Fiberboard, asbestos, asphalt.
48-42-0220		8		Same as 6 tooth but for smoother finish.
48-42-0240				Taper ground for smoothest sawing.
WOOD CUTTING . . . FLUSH CUTTING . . . High Carbon Steel.				
48-42-0300	3⅝	8	4	Same use as 6 tooth General Purpose. Saws up to a wall.
WOOD CUTTING . . . DELUXE . . . High Speed Steel.				
48-42-0400	3⅛	6	5	"Shear tooth" for fast roughing work on light and medium sections. Pocket cuts.
48-42-0420	3⅝		4	Same as above for fast roughing work on heavier sections.
WOOD CUTTING... DELUXE TAPER GROUND ...High Speed Steel.				
48-42-0500	3⅝	6	5	Fast finish work on medium sections (½"-¾") of plywood, formica, wood.
48-42-0520			4	Fast finish work on medium to heavy sections (½"-¾").
48-42-0540		10	5	Fast finish work on light sections (¼") thick of plywood, formica, wood.
48-42-0560			4	Fast finish work on light to medium sections (¼"-⅜").
48-42-0600	3⅝	6	5	Tight smooth scroll work. No distortion on curves. Saws plywood, formica, decorative veneers, plastics, etc. Thickness to ¾".
48-42-0620		10		Same as above to thicknesses of ½".
48-42-0640				Same as above. Reverse tooth for smooth finish on top surface.
KNIFE CUTTING . . . High Carbon Steel.				
48-42-0700	2½	0	5	Cuts insulating material, leather, rubber, cardboard, sponge, felt, acoustical tile.
ABRASIVE MATERIALS . . . Medium Grit Tungsten Carbide				
48-42-0800	2⅞	0	4	Plywood, hardwood veneer, fiber glass, (polyesters, epoxies, melamines, silicones), ceramic tile, cast stone, slate, clay pipe, carbon, brick, chalkboard.
48-42-0810	4	0	4	Same as above. Flush cuts to a wall.

EXCLUSIVE FEATURES



PIVOTING HEAD

Cutting head is adjustable—right or left—to full 45° angle . . . calibrated settings. Locks at required angle by tightening a single screw. Handle remains in upright position.



TURN and LOCK SHOE

Shoe quickly adjusts for straight, miter or flush cuts. Adaptable for every sawing application. Loosen and rotate shoe to required position. Holes in the shoe are placed on two locator pins on base of tool, then locked by tightening flat head screw.

SPECIFICATIONS

Catalog No.	Length of Stroke	Strokes per Minute	Overall Incl. Shoe Length	Width	Height	Net Wgt. (Lbs.)	Shp. Wt. (Lbs.)
SINGLE SPEED UNIT . . . 115 Volt							
6270 with case **6250** less case	¾"	3500	8"	3½"	5¼"	5	14 8
SPEED CONTROL UNIT . . . 115 Volt AC Only							
6285 with case **6280** less case	¾"	1400 to 3500	9½"	3½"	5¼"	5¼	14 8

Standard equipment includes Jig-Saw Blade Card 49-22-1160 for wood and metal — a total of 10 blades. Also included are a combination circle and rip guide, two socket wrenches, an extra blade clamp screw and one 48-66-4080 key holder.

JIG-SAW BLADE CARD

Cat. No. 49-22-1160 Same as furnished with each Jig-Saw. Consists of one each 48-42-(0100, 0120 and 0140) for metal, and 48-42-(0200, 0220, 0240, 0300, 0400, 0600 and 0640) for wood — a total of 10 blades.

WRENCH AND SCREW KITS

Cat. No. 49-22-5060 For Jig-Saws below serial no. 281-11240 (single speed) and serial no. 334-1415 (variable speed). Consists of five 49-96-0060 ⅛" Socket Wrenches for blade clamp, five 49-96-0080 3/16" Socket Wrenches for pivoting head and shoe adjustments. Also twenty blade clamp screws.

Cat. No. 49-22-5070 For Jig-Saws serial no. 281-11240 (single speed) and above and serial no. 334-1415 (variable speed) and above. Consists of five 49-96-0050 3/32" Socket Wrenches for blade clamp, five 49-96-0080 3/16" Socket Wrenches for pivoting head and shoe adjustments. Also twenty blade clamp screws.

TYPE "A" GREASE ½ LB. CAN **49-08-0500**; 1 LB. CAN **49-08-0800**

ORBITAL SANDER

for Furniture Manufacturers • Woodworkers
Carpenters • Cabinet Makers • Boat Builders

ONLY 5 LBS.

DIRECT DRIVE
NO GEARS OR BELTS

Available
With or Without
STEEL CARRYING CASE
Cat. No. 48-55-0850

SPECIFICATIONS

115 volts

Catalog No.	Orbits Per Min.	Dia. of Orbit	Over-all Size			Net Wgt. (Lbs.)	Shp. Wgt. (Lbs.)
			Length	Width	Height		
WITH FELT PAD							
6000 Less Case **6001 With Case**	10,000	1/8"	10 1/4"	3 9/16"	5 3/4"	5	9 13
WITH RUBBER PAD							
6002 Less Case **6003 With Case**	10,000	1/8"	10 1/4"	3 9/16"	5 3/4"	5	9 13

Standard Equipment Includes a Package of 10 Assorted Sheets of Sandpaper. Catalog No. 49-37-0010.

HIGH SPEED . . . 10,000 ORBITS PER MINUTE

For fast, high production, satin-smooth finishing of wood, metal or plastics. Sands thin veneers without scoring, burning or tracking — no swirl marks. Lightweight for ease in handling overhead, vertically, on edges, in corners, contours or on offset surfaces. Compact design only 5 3/4" high with no protruding parts to interfere with working surface. Powerful oversize Milwaukee Built Motor. Multiple blade fan draws air around every part for cooler operation. Mechanism counter-balanced to prevent vibration. Heavy-duty 2-pole, thumb-slide switch. Three grease sealed, precision ball bearings — No further lubrication required.

ACCESSORIES

SANDPAPER — Aluminum-Oxide Open Coat Production Paper. Size 3 2/3" x 9", 1/3 of Standard 9" x 11" Sheet.

Catalog No.	Grit	Grade	Sheets Per Pkg.
49-37-0050	50	Coarse	10
49-37-0080	80	Medium	10
49-37-0120	120	Fine	10
•49-37-0010 (Assortment)	50 80 120	Coarse Medium Fine	10 Assorted

•Same as Furnished With Each Orbital Sander.

ELECTRIC CHAIN SAWS

CHAIN CUTTING SPEED 2000 FT. PER MINUTE

16" and 20" Sizes

FULL 2 HP AT THE CHAIN

LIGHTWEIGHT

ALL BALL BEARINGS

- **Most powerful Electric Chain Saw of its size.**
- **Flush cuts . . . no housing or bolt overhang.**
- **Large sawdust and chip removal port.**
- **Plunger-type chain oiler. One pint capacity.**
- **Instant start even in freezing temperatures.**
- **No fuel . . . No fire hazard.**
- **Quiet, smooth, electric motor.**

Ruggedly built, fast cutting Chain Saw with functional housing proportioned for best balance. Grip handles located for easy handling in any position. Dustproof trigger switch. Tempered steel Guide Bar with uniform hardness and straight rail for friction-free chain travel. 3/8" pitch Chipper Chain for all-around cutting. Recessed chain and guide bar adjustment. Cleats provide fulcrum for feeding into work.

SPECIFICATIONS

Catalog No.	Bar Length	Volts	H.P. At The Chain	Cutting Speed Ft./Min.	Net Wt. Lbs.	Shp. Wt. Lbs.
6200 **6201**	16" 20"	115	2	2000	17 1/2 18 1/2	24 26

Standard Equipment Includes Chipper Chain and Wrench.

ACCESSORIES

GUIDE BARS

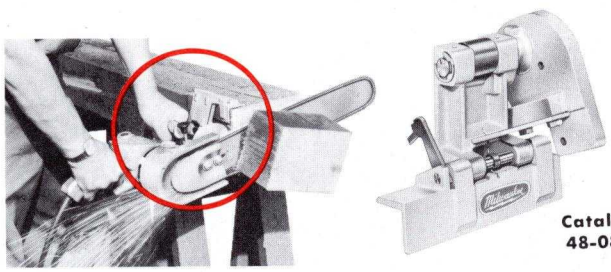
Catalog No.	Description
48-09-5000	16" GuideBar
48-09-5100	20" Guide Bar
48-58-0050	16" Chipper Chain
48-58-0070	20" Chipper Chain
49-17-0100	File and Holder (For use with 3/8" pitch chain)
49-22-3000	Chain Replacement Kit (For use with Chipper Chain) Includes tie straps and drive link.
49-96-6200	Chain Saw Wrench
49-08-0500	1/2 lb. Type "A" Grease
49-08-0800	1 lb. Type "A" Grease

FILE AND HOLDER

SQUARE-CUT UNIT

for use with MILWAUKEE CHAIN SAWS

For Contractors, Bridge Builders, Lumber Yards, Railroad Shops and Industry



Catalog No. 48-08-0100

- **Economical . . . Efficient . . . Practical**
- **Fast . . . Accurate . . . Easy to use.**
- **Mounts easily to holes in gear case.**
- **Double spring action allows full cutting capacity.**

Milwaukee Chain Saws can be converted for square or angle cutting heavy beams up to 14" x 16" or gang cutting 4"x12"s, 4"x4"s and 6"x8"s. The Square-Cut Unit fastens securely to the edge of the lumber to assure smooth, effortless sawing action through a complete cut. Net weight 2 1/4 lbs. (With Chain Saw only 20 lbs.) The unit is quickly adapted to all Milwaukee Chain Saws whether new or already in use.

ROUTERS and ACCESSORIES

ALL BALL BEARINGS

1 HP

8 AMPS

Catalog No. 5620

1½ HP

10 AMPS

Catalog No. 5660

MOTORS ONLY

Motor for 1 HP unit
Catalog No. 5610

Motor for 1½ HP unit
Catalog No. 5650

Motors include 2 wrenches, ¼" collet (with 5610) or ¼" and ½" collets (with 5650), adjusting ring and power cord.

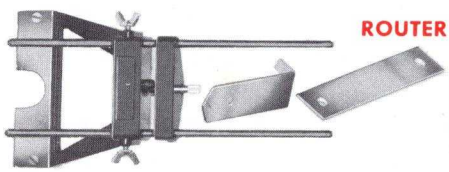
BASE ONLY

Bases for 1 and 1½ HP unit
Catalog No. 48-10-0060

Base includes 2 handles, clear view sub base and wing lock nut.

OUTSTANDING FEATURES

- MILWAUKEE-BUILT MOTORS The highest amp ratings of any routers in their class. They have the reserve horsepower for extra heavy-duty jobs.
- FUNCTIONAL TRIGGER-HANDLE GROUPING Textured handles, for maximum comfort and no slip gripping, permit on-off switch operation without releasing the handle.
- ACCURATE, SIMPLE DEPTH ADJUSTMENT Adjusting ring, marked in 1/64" graduations, permits friction-free operation with locking device to maintain depth-of-cut.
- OUT-OF-WAY ELECTRIC CORD Prevents cord from falling into line of cut and will not obscure vision.
- FLAT TOP FOR STEADY POSITIONING For changing bits, removing base or measuring bit for depth of cut.
- CLEAR VIEW SUB BASE Clear view sub base plus large openings in base for maximum visibility.



ROUTER GUIDE

Catalog No. 49-54-0200

For straight or circular cuts. Guide includes trammel point assembly for cutting circles.

VENEER TRIM KIT

Catalog No. 49-54-0300

For cutting hard plastic laminates. Comes complete with base, mounting screws, combination straight and bevel trim bit and extra nylon guide.

MOST POWERFUL 1 and 1½ HORSEPOWER ROUTERS ON THE MARKET

MILWAUKEE Routers are engineered to meet the woodworking industry's exacting standards. They have the highest amp ratings of any routers in their class. Built for heavy-duty, continuous high production use, these tools make joinery, beading, grooving, routing, fluting and other operations simple, fast and accurate. Erickson double-angle collets are used exclusively to assure maximum bit grip and precision accuracy under toughest operating conditions. A full line of accessories and router bits are available for all types of applications.

SPECIFICATIONS

115 Volts

Catalog No.	HP	No Load Speed RPM	Collet Capacity	Sub-Base Diameter	Overall Height	Net Wgt. (lbs.)	Shp. Wgt. (lbs.)
5620	1	23,000	¼"-⅜"	6"	8"	8	10
5660	1½	23,000	¼"-⅜"-½"	6"	8"	8½	11

STANDARD EQUIPMENT

1 HP ROUTER model 5620 includes a ¼" collet (cat. no. 48-66-0930), 2 open end wrenches (⅞" open end cat. no. 49-96-4475) and router base (cat. no. 48-10-0060).

1½ HP ROUTER model 5660 includes a ¼" collet (cat. no. 48-66-0945) and ½" collet (cat. no. 48-66-0955). 2 open end wrenches (⅞" open end, cat. no. 49-96-4475 and a 1⅛" open end cat. no. 49-96-4505) and router base (cat. no. 48-10-0060).

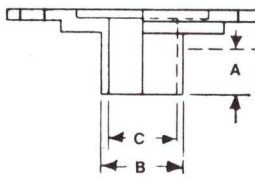
ERICKSON COLLETS FOR MILWAUKEE ROUTERS

For 1 HP models 5620 and 5610
¼" Collet **Catalog No. 48-66-0930**
⅜" Collet **Catalog No. 48-66-0940**

For 1½ HP models 5660 and 5650
¼" Collet **Catalog No. 48-66-0945**
⅜" Collet **Catalog No. 48-66-0950**
½" Collet **Catalog No. 48-66-0955**

GENERAL TEMPLATE GUIDES AND HINGE BUTT GUIDE

For 1 HP and 1½ HP Routers (Includes 2 screws)



Template	Dimensions A	B	C	Catalog No.
General	5/16	1/4	3/16	**49-54-0500**
General	3/16	3/8	5/16	**49-54-0510**
General	5/16	7/16	3/8	**49-54-0520**
General	3/16	5/8	9/16	**49-54-0530**
Hinge Butt	7/16	5/8	9/16	**49-54-0550**

OPEN END WRENCHES

⅞" Wrench **Catalog No. 49-96-4475**
1⅛" Wrench **Catalog No. 49-96-4505**
(See Standard Equipment)

STEEL CARRYING CASE FOR MILWAUKEE ROUTERS

Catalog No. 48-55-0810

DOOR & JAMB BUTT TEMPLATE KIT

Catalog No. 49-54-0100

Includes carrying case, template, link rail assemblies, template nails and end gauges. Will mortise any 6'6", 6'8" or 7' door and any hinge size 2½" to 5½". Kit includes detailed instructions for proper use. Additional template nails (12 per package) are available (cat. no. 49-54-0600). Order hinge butt template guide (cat. no. 49-54-0550) separately.

CARRYING CASE ONLY

Catalog No. 48-55-0800

ROUTER BITS

HIGHEST QUALITY FOR BEST PERFORMANCE AND LONG LIFE

MILWAUKEE ROUTER BITS are a select line, made from high-speed steel, carbide tipped and solid carbide steel. Each bit has been carefully evaluated and approved for use with the new routers. Double-ground edges, consistent matching contours, high speed geometry and critical hardness control all add up to maximum accuracy and economy.

PROPER SELECTION OF MILWAUKEE ROUTER BITS

For fast, rough cuts the single flute bit is ideal, since it provides greater chip clearance. However, smoother cuts and a much better finish can be obtained with a two flute bit. The two flute bit provides a smoother finish because at the same speed and rate of feed, only half as large a chip load is taken per cut. Do not select a bit which is longer than necessary. Moving a long bit up or down, using the whole length of the cutting edge, is not generally a good practice, and will result in excessive breakage.

HIGH SPEED STEEL

High Speed Steel Bits are recommended for regular woods which contain no abrasives. Under these conditions, the high speed steel will provide a smooth cut and long life.

CARBIDE TIPPED

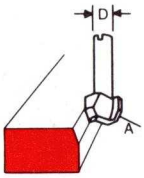
Carbide-tip bits are recommended for cutting plywood, masonite and other composites. These materials contain abrasives. Under abrasive conditions, a carbide-tip bit will last ten to twenty-five times longer than high speed steel.

SOLID CARBIDE

These bits offer all of the advantages of carbide tipped bits, plus the feature of 1 piece geometry — no brazing, and the short functional length withstands high torque loads and offers longer useful life.

COMBINATION STRAIGHT AND 22° BEVEL TRIM BIT

Combines 22° bevel trim and flush trim cuts in one bit.

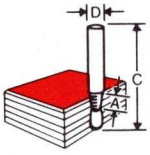


CARBIDE TIPPED

CATALOG NUMBER	A Degrees	D In.
48-23-6715	22°	1/4

7½° BEVEL TRIMMER

With pilot. For finish trim edge on plastic laminate doors, tables and furniture.

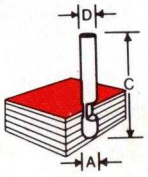


SOLID CARBIDE

CATALOG NUMBER	A Degrees	C In.	D In.
48-23-5195	7-1/2	1-5/8	1/4

FLUSH TRIM BIT

With pilot. Produces square, flush edge on plastic laminates.

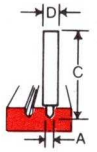


SOLID CARBIDE

CATALOG NUMBER	A In.	C In.	D In.
48-23-5235	1/4	1-5/8	1/4

PROVINCIAL DESIGN VEINER BITS

Most practical for veining designs on panels, cabinet doors and furniture.

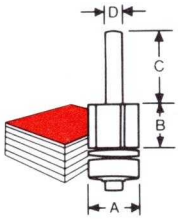


SOLID CARBIDE

CATALOG NUMBER	A In.	C In.	D In.
48-23-5295	1/8	1-1/2	1/4
48-23-5300	3/16	1-1/2	1/4

HELIX LAMINATE TRIMMERS

Designed to force the laminate against backing for chip free cuts — eliminates surface flake out. Replaceable ball bearing pilot.



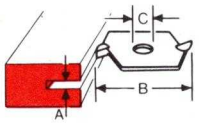
CARBIDE TIPPED

CATALOG NUMBER	TYPE OF CUT	A In.	B In.	C In.	D In.
48-23-6700	Flush	3/4*	5/8	1	1/4
48-23-6710	15°	3/4*	3/8	1	1/4

*Replaceable Bearing 49-54-1050.

TWO WING SLOTTING CUTTERS*

Used for slotting plywoods and core boards for "T" moldings.



CARBIDE TIPPED

CATALOG NUMBER	A In.	B In.	C In.
48-23-8000	1/16	1-7/8	5/16
48-23-8010	5/64	1-7/8	5/16
48-23-8020	3/32	1-7/8	5/16
48-23-8030	1/4	1-7/8	5/16

Stiffening Collars included with Slotting Cutters — two each for 1/16", 5/64" and 3/32" and one for 1/4".

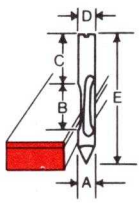
NOTE

USE ABOVE WITH SLOTTING CUTTER ARBOR Catalog No. 48-23-8050

Includes 1/4" shank Slotting Cutter Arbor, Nut, Washer and Bearing.
Replacement Arbor Bearing No. 49-54-1080

COMBINATION PILOT PANEL BITS WITH DRILL POINTS — SINGLE FLUTE

For trimming veneer and for template panel routing.

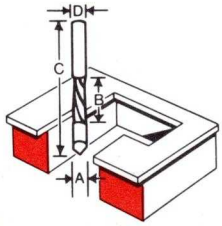


HIGH SPEED STEEL

CATALOG NUMBER	A In.	B In.	C In.	D In.	E In.
48-23-1010	1/4	3/4	1-5/16	1/4	2-5/8
48-23-1015	3/8	7/8	1-5/16	3/8	3
CARBIDE TIPPED					
48-23-6000	1/4	7/8	1	1/4	2-1/2
48-23-6020	3/8	1	1-1/8	3/8	3

DOWN SPIRAL PILOT PANEL BITS WITH DRILL POINTS

For cutting aluminum sheet, plywood, wall panels, insulation sheeting and other synthetic materials.



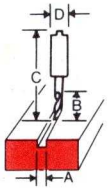
HIGH SPEED STEEL

CATALOG NUMBER	A In.	B In.	C In.	D In.
48-23-1020	1/4	3/4	3-1/16	1/4
48-23-1025	3/8	1	3-1/2	3/8
48-23-1030	1/2	1-3/4	4-1/4	1/2

ROUTER BITS

RIGHT HAND SPIRAL SHEAR CUT BIT

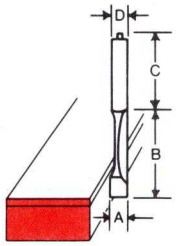
Up cutting action, lifts chips out of groove permitting deep cuts to be made. For trimming aluminum and other non-ferrous metals.



	HIGH SPEED STEEL			
CATALOG NUMBER	A In.	B In.	C In.	D In.
48-23-1610	1/8	13/16	1-7/8	1/4
48-23-1620	3/16	1-1/8	2-1/8	1/4
48-23-1630	1/4	1-1/2	2-1/2	1/4

PILOT PANEL BIT — SINGLE FLUTE

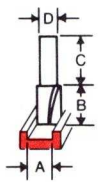
For trimming veneer and for template panel routing.



	HIGH SPEED STEEL			
CATALOG NUMBER	A In.	B In.	C In.	D In.
48-23-1000	1/4	3/4	1-5/16	1/4

STRAIGHT BITS — TWO FLUTES

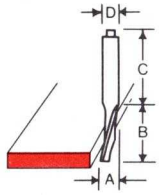
For all general purpose routing (rabbeting, grooving, dadoing, etc.). Smooth finish cuts. Use long shank bits where nature of cut requires longer shank extension.



	HIGH SPEED STEEL			
CATALOG NUMBER	A In.	B In.	C In.	D In.
48-23-0050	1/4	5/8	1	1/4
48-23-0055	1/4	1-1/8	1-3/16	1/4
48-23-0060	5/16	3/4	1	1/4
48-23-0065	5/16	1-1/8	1-3/16	1/4
48-23-0070	3/8	11/16	1	1/4
48-23-0110	3/8	1-1/8	1-1/4	3/8
48-23-0125	3/8	1-1/8	1-7/16	1/2
48-23-0075	7/16	11/16	1	1/4
48-23-0080	1/2	3/4	1	1/4
48-23-0130	1/2	1-1/8	1-7/16	1/2
48-23-0140	1/2	2	2	1/2
48-23-0085	9/16	5/8	1	1/4
48-23-0090	5/8	5/8	1	1/4
48-23-0145	5/8	1-1/8	1-7/16	1/2
48-23-0095	11/16	5/8	1	1/4
48-23-0100	3/4	5/8	1	1/4
48-23-0150	3/4	1-1/8	1-7/16	1/2
48-23-0155	13/16	1-1/8	1-7/16	1/2
48-23-0160	7/8	1-1/8	1-7/16	1/2
48-23-0170	1	1-1/8	1-7/16	1/2
	CARBIDE TIPPED			
48-23-5055	1/4	3/4	1	1/4
48-23-5056	1/4	1	1	1/4
48-23-5105	1/4	3/4	1	3/8
48-23-5065	5/16	1	1-1/16	1/4
48-23-5070	3/8	1	1-1/16	1/4
48-23-5110	3/8	1-1/4	1	3/8
48-23-5126	3/8	1	1-1/4	1/2
48-23-5080	1/2	1	1-1/16	1/4
48-23-5115	1/2	1	1	3/8
48-23-5141	1/2	1-1/4	1-1/4	1/2
48-23-5142	1/2	2	1-3/4	1/2
48-23-5090	5/8	3/4	1-1/16	1/4
48-23-5100	3/4	3/4	1-1/16	1/4
48-23-5150	3/4	3/4	1-1/4	1/2

RIGHT HAND SPIRAL BIT

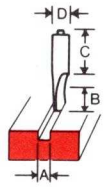
For trimming aluminum and non-ferrous metals.



	HIGH SPEED STEEL			
CATALOG NUMBER	A In.	B In.	C In.	D In.
48-23-1500	1/4	3/4	1-1/4	1/4

STRAIGHT BITS — SINGLE FLUTE

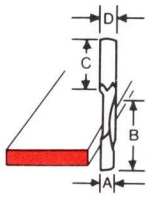
For all general purpose routing (rabbeting, grooving, dadoing, etc.). Fast rough cuts. Use long shank bits where nature of cut requires longer shank extension.



	HIGH SPEED STEEL			
CATALOG NUMBER	A In.	B In.	C In.	D In.
48-23-0010	1/16	3/16	1	1/4
48-23-0015	1/8	5/16	1	1/4
48-23-0035	1/8	5/8	1-3/16	1/4
48-23-0020	5/32	3/8	1	1/4
48-23-0025	3/16	7/16	1	1/4
48-23-0040	3/16	3/4	1-3/16	1/4
48-23-0030	7/32	7/16	1	1/4
48-23-0045	1/4	1	1-3/16	1/4
48-23-0046	3/8	1-1/8	1-3/16	3/8
	CARBIDE TIPPED			
48-23-5025	3/16	3/8	1-1/16	1/4

STAGGER TOOTH STRAIGHT BIT

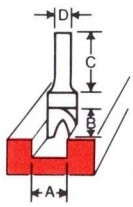
Excellent for cut outs. This design gives the bit two flute balance with single flute cutting speed.



	CARBIDE TIPPED			
CATALOG NUMBER	A In.	B In.	C In.	D In.
48-23-5143	1/2	2	1-1/2	1/2

HINGE MORTISING BITS

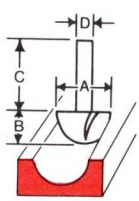
Fast cutting bit for making mortises when cut is started from edge of work.



	HIGH SPEED STEEL			
CATALOG NUMBER	A In.	B In.	C In.	D In.
48-23-1100	3/8	7/16	1-1/8	1/4
48-23-1110	7/16	3/8	1-1/8	1/4
48-23-1120	1/2	13/32	1-1/8	1/4
	CARBIDE TIPPED			
48-23-6100	1/2	5/16	1-7/32	1/4

CORE BOX BITS — TWO FLUTES

Especially effective in fluting flat surfaces (mantels and facades).

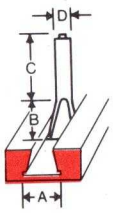


	HIGH SPEED STEEL			
CATALOG NUMBER	A In.	B In.	C In.	D In.
48-23-0200	1/4	1/4	1	1/4
48-23-0205	5/16	1/4	1	1/4
48-23-0210	3/8	1/4	1	1/4
48-23-0215	7/16	1/4	1	1/4
48-23-0220	1/2	11/32	1	1/4
48-23-0225	9/16	3/8	1	1/4
48-23-0230	5/8	3/8	1	1/4
48-23-0235	11/16	7/16	1	1/4
48-23-0240	3/4	15/32	1	1/4

ROUTER BITS

DOVETAIL BITS

For making dovetail.

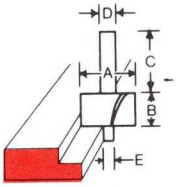


HIGH SPEED STEEL

CATALOG NUMBER	A In.	B In.	C In.	D In.
48-23-1300	9/32	3/8	1-1/4	1/4
48-23-1310	9/16	17/32	1-3/32	1/4

RABBETING BITS

With pilot. For making rabbeting cuts without use of router guide. Carbide tip bit has replaceable ball bearing pilot.



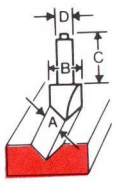
HIGH SPEED STEEL

CATALOG NUMBER	RABBET DEPTH In.	A In.	B In.	C In.	D In.	E In.
48-23-1400	1/4	11/16	7/16	1	1/4	3/16
48-23-1410	3/8	15/16	1/2	1	1/4	3/16
CARBIDE TIPPED						
48-23-6400	3/8	1-1/4	1/2	1-1/2	1/4	*

***REPLACEMENT BALL BEARING 49-54-1060... By substituting Bearing 49-54-1070, rabbet depth can be increased to 1/2".**

V-GROOVING BITS

Excellent for lettering and sign work.

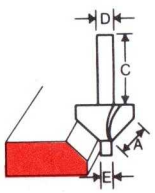


HIGH SPEED STEEL

CATALOG NUMBER	A In.	B In.	C In.	D In.
48-23-0600	3/8	9/1/6	1	1/4
48-23-0610	7/8	1-1/4	1	1/4

CHAMFERING BITS — TWO FLUTES

With pilot. For decorative edging and making concealed joints. Carbide tip bit has replaceable ball bearing pilot.



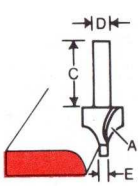
HIGH SPEED STEEL

CATALOG NUMBER	A In.	C In.	D In.	E In.
48-23-1200	1/2	1	1/4	3/16
CARBIDE TIPPED				
48-23-6200	5/8	1	1/4	*

***Replaceable Bearing 49-54-1090.**

CORNER ROUNDING BITS

With pilot. For decorative edging and for drop leaf table joints. Carbide tip bits have replaceable ball bearing pilot.



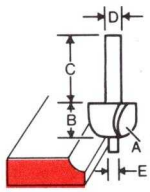
HIGH SPEED STEEL

CATALOG NUMBER	A In. Radius	C In.	D In.	E In.
48-23-0400	3/16	1	1/4	3/16
48-23-0410	1/4	1	1/4	3/16
48-23-0420	5/16	1	1/4	3/16
48-23-0430	3/8	1	1/4	3/16
48-23-0440	1/2	1	1/4	3/16
CARBIDE TIPPED				
48-23-5410	1/4	1	1/4	*
48-23-5430	3/8	1	1/4	*

***Replaceable Bearing 49-54-1060... Converts to Beading Bit by substituting Bearing No. 49-54-1070.**

COVE BITS — TWO FLUTES

With pilot. For decorative edging and for drop leaf table joints.

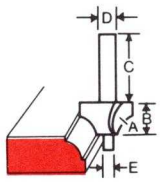


HIGH SPEED STEEL

CATALOG NUMBER	A In. (Radius)	B In.	C In.	D In.	E In.
48-23-0300	3/16	3/8	1	1/4	3/16
48-23-0310	1/4	1/2	1	1/4	3/16
48-23-0320	3/8	5/8	1	1/4	3/16
48-23-0330	1/2	3/4	1	1/4	3/16

BEADING BITS — TWO FLUTES

With pilot. For decorative furniture. Pilot guides router along edge of work. Carbide tip bits have replaceable ball bearing pilot.



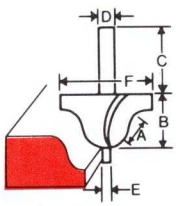
HIGH SPEED STEEL

CATALOG NUMBER	A Radius	B In.	C In.	D In.	E In.
48-23-0500	1/16	3/16	1	1/4	3/16
48-23-0510	1/8	3/8	1	1/4	3/16
48-23-0520	1/4	1/2	1	1/4	3/16
48-23-0530	3/8	3/4	1	1/4	3/16
CARBIDE TIPPED					
48-23-5520	1/4	1/2	1	1/4	*
48-23-5530	3/8	5/8	1	1/4	*

***Replaceable Bearing 49-54-1070... Converts to Corner Rounding Bit by substituting Bearing 49-54-1060.**

ROMAN OGEE BITS

With pilot. For decorative furniture. Pilot guides router along edge of work.

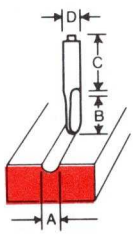


HIGH SPEED STEEL

CATALOG NUMBER	A In.	B In.	C In.	D In.	E In.	F In.
48-23-0800	5/32	1/2	1	1/4	3/16	15/16
48-23-0810	1/4	3/4	1	1/4	3/16	1-3/16

VEINING BITS — SINGLE FLUTE

For decorative line work on any flat surface.

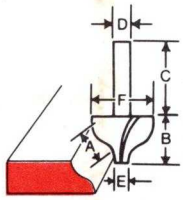


HIGH SPEED STEEL

CATALOG NUMBER	A In.	B In.	C In.	D In.
48-23-0700	1/8	5/16	1	1/4
48-23-0710	3/16	7/16	1	1/4
48-23-0720	7/32	7/16	1	1/4

OGEE BITS

For decorative cuts. Clamp straight edge or template on the work and use as a guide for the outside edge of router base.



HIGH SPEED STEEL

CATALOG NUMBER	A In.	B In.	C In.	D In.	E In.	F In.
48-23-0900	3/16	5/8	1	1/4	3/16	13/16
48-23-0910	9/32	29/32	1	1/4	3/16	1-3/16

SPECIAL SCREWDRIVERS

TOOL AND ACCESSORY SELECTION

SCREWDRIVERS

1. **Determine type of screw most frequently driven, (wood, sheet metal, drywall, etc.)**
2. **Select Driver Recommended for screw type. See page 39 for Drywall Drivers.**
3. **Check screwdriver's standard equipment to determine whether or not additional accessories are required.**

ACCESSORIES

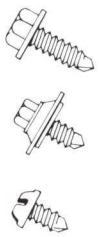
(See Page 38 for complete bit and socket illustrations and specs.)

1. **Select driving accessories for screw drive type used. (Example: #8 Phillips Drive Screw requires #2 Phillips Insert Bit, which in turn requires Bit Holder, G, H or J. (See page 38) In this case G is selected, Mag. Bit Holder #48-32-3025.)**
2. **Select proper Depth Locator or Bit Guide from chart next to tool selected. (Example) Mag. Bit Holder requires F (Locator) or C1 (Bit Guide). Neither is standard equipment.**
3. **Order accessories by description and catalog number. ("Key" letters are for reference only.)**

FOR DRIVING SELF-DRILLING, SELF-TAPPING TEKS® FASTENERS.

TEKS® registered trade mark of Illinois Tool Works Inc.

POSITIVE DRIVE CLUTCH



CATALOG NO. 6798-1 REVERSING

With Non-Marring Locators
And Trigger Speed Control 0-2500 RPM

CAPACITY

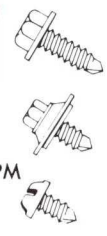
¼" in 3/16" Cold Rolled Steel or
No. 12 in ½" Cold Rolled Steel.

- **POWERFUL 4.5 AMP MOTOR**
- **CONVENIENTLY LOCATED REVERSING SWITCH**
- **NEW, SIMPLE ONE HAND DEPTH ADJUSTMENT**

CONVERSION KIT

Catalog No. 49-22-1500. Required to convert former model 6796-1 Screwdriver for use with nonmarring locators. Kit consists of: Locator sleeves — ¼" 49-26-0250; 5/16" 49-26-0312; 3/8" 49-26-0375, 7/16" 49-26-0600 and bit housing 48-32-2500.

ADJUSTABLE TORQUE CLUTCH



CATALOG NO. 6783-1 REVERSING

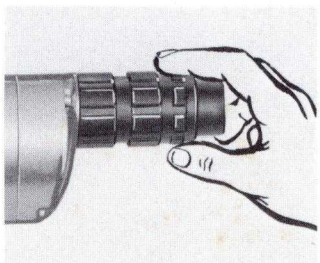
With Non-Marring Locators
And Trigger Speed Control 0-2500 RPM

CAPACITY

¼" in 3/16" Cold Rolled Steel or
No. 12 in ½" Cold Rolled Steel.

- **NEW, POWERFUL 4.5 AMP MOTOR**
- **CONVENIENTLY LOCATED REVERSING SWITCH**
- **NEW ADJUSTABLE CLUTCH MECHANISM**
- **NEW, EXCLUSIVE BIT GUIDE SYSTEM**
- **HIGH TORQUE AND RPM**

SIMPLIFIED ADJUSTABLE TORQUE RELEASE CLUTCH

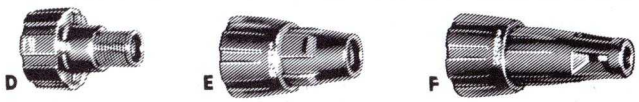


Torque output is easily changed externally by turning adjusting ring. Locking collar positively holds setting.

LEATHER HOLSTER
FOR PISTOL DRILLS and SCREWDRIVERS
Fits belts to 3 inches wide.
CATALOG NO. 49-17-0200

Positive Drive Clutch model is specifically engineered for fast, precision driving of self-drilling, self-tapping fasteners in steel, brass, bronze, aluminum and stainless. Also for fastening wood or other compressible materials to metal. Positive clutch engages when pressure is applied. Driving action stops and clutch disengages when pressure is released or when locator contacts work surface. Clutch jaws are milled at precise angles, assuring positive driving action. Depth control is adjustable in increments of 1/64" from outside of tool.

BIT HOUSING & LOCATORS FOR 6798-1 POSITIVE DRIVE



Key	Description	Catalog No.	For Use With These Bits & Sockets†	
D	Bit Housing	48-32-2500●	Locators E and F	
E1	¼" Locator	49-26-0250●	J, L1, M1, 01, P1	¼" Sockets Non-Mag. Bit Holder,
E2	5/16" Locator	49-26-0312●	L2, M2, 02, P2	5/16" Sockets
E3	3/8" Locator	49-26-0375●	L3, M3, 03, P3	3/8" Sockets
E4	7/16" Locator	49-26-0600●	M4	
F	Mag. Bit Holder Loc.	49-26-1000	G, H	One and Two Pc. Mag. Bit Holders

●**Standard Equipment.** Also includes Cat. No. 49-66-3010 5/16" Magnetic Socket and 48-32-2050 ¼" Square Driver.
†See page 38 for complete bit and socket illustrations and specs.

Milwaukee's Adjustable Torque Clutch model is a completely *new concept* for driving self-drilling, self-tapping fasteners. A simple "pull and turn" torque adjusting ring is the only adjustment required for fast accurate screwdriving. Clutch disengages and driving action stops when pre-set torque is reached. Another big plus feature is the powerful 4.5 amp motor.

A complete line of bit guides and bits add to this tool's adaptability.
See page 38 for complete screwdriver accessories line.

BIT GUIDES FOR 6783-1 ADJUSTABLE TORQUE

Key	Description	Catalog No.	For Use With These Bits & Sockets†	
B1	¼" Bit Guide	48-32-0250●	J, L1, M1, 01, P1	Non-Mag. Bit Holder, ¼" Sockets
B2	5/16" Bit Guide	48-32-0312●	L2, M2, 02, P2	5/16" Sockets
B3	3/8" Bit Guide	48-32-0375●	L3, M3, 03, P3	3/8" Sockets
C1	6F-8R Bit Guide	48-32-0608	G, H	Mag. Bit Holders

●**Standard Equipment.** Also includes Cat. No. 49-66-3010 5/16" Magnetic Socket and 48-32-2050 ¼" Square Driver.
†See page 38 for complete bit and socket illustrations and specs.

SPECIFICATIONS

Catalog No.	RPM No Load	Volts	Bit Shank Size	Spindle Offset	Lgth. (ins.)	Net Wgt. lbs.	Shp. Wgt. lbs.
6798-1 Rev. ★	0 to 2500	115	¼" Hex	¾"	9½	3¾	7
6783-1 Rev. ★					10¼	4½	8

★60 cycle AC only.
"Rev." after Catalog No. indicates reversing type motor.

For Steel Carrying Case See page 9

Type "A" Grease

½ lb. can **Catalog No. 49-08-0500**
1 lb. can **Catalog No. 49-08-0800**

SCREW DRIVERS – NUT RUNNERS

TOOL AND ACCESSORY SELECTION

SCREWDRIVERS

1. **Determine type of screw most frequently driven, (wood, sheet metal, drywall, etc.)**
2. **Select Driver Recommended for screw type. See page 39 for Drywall Drivers.**
3. **Check screwdriver's standard equipment to determine whether or not additional accessories are required.**

ACCESSORIES

(See Page 38 for complete bit and socket illustrations and specs.)

1. **Select driving accessory required for drive type used. Example: #8 Slotted Round Head wood screw will require Q1, 6F-8R Bit and Finder #48-30-2600)**
2. **Select required bit guide from chart next to tool selected. (Example: 6F-8R Bit and Finder requires C1, 6F-8R Bit Guide #48-32-0608.)**
3. **Order accessories by description and catalog number. ("Key" letters are for reference only.)**

WOOD SCREWS

WITH POSITIVE DRIVE CLUTCH

CATALOG NO. 6543-1 REVERSING
With Trigger Speed Control

CAPACITY

Soft wood with pilot hole — to 5/16" Lag.
Soft wood without pilot hole — to #16
Hard wood with pilot hole — to #16
Hard wood without pilot hole — to #12

- POWERFUL 4.5 AMP MOTOR
- EXCLUSIVE BIT GUIDE PREVENTS WOBBLE
- VARIABLE SPEED SWITCH FOR MAXIMUM CONTROL
- HIGH IMPACT THERMOPLASTIC HANDLE

Positive Clutch Drive Unit is compact, lightweight and powerful for use in wood and other resilient materials where there is a varied resistance in density and hardness. Clutch engages when pressure is applied and stops when pressure is released. Torque is maintained while pressure is applied. New exclusive Snap-in bit guide design provides maximum support, greatly reducing bit wobble.

BIT GUIDE HOUSING & BIT GUIDES FOR 6543-1 POSITIVE DRIVE

Key	Description	Catalog No.	For Use With These Bits and Sockets†	
A	Bit Guide Housing	48-32-1000●	Bit Guides B and C	
B1	1/4" Bit Guide	48-32-0250●	J, L1, M1, O1, P1	Non-Mag. Bit Holder 1/4" Sockets, Extensions
C1	6F-8R Bit Guide	48-32-0608	G, H, Q1	Magnetic Bit Holders, Bit & Finder
C2	8F-10R Bit Guide	48-32-0810	Q2	Bit & Finder
C3	10F-12R Bit Guide	48-32-1012	Q3	Bit & Finder
C4	12F-14R Bit Guide	48-32-1214	Q4	Bit & Finder
C5	14F-16R Bit Guide	48-32-1416	Q5	Bit & Finder

●**Standard Equipment.** Also includes Cat. No. 48-32-3050 Non-Magnetic Bit Holder.
†See page 38 for complete bit and socket illustrations and specs.

MACHINE AND SHEET METAL SCREWS AND NUTS

WITH ADJUSTABLE TORQUE CLUTCH

CATALOG NO. 6583-1 REVERSING
With Trigger Speed Control

CAPACITY

Tapping screws — to 1/4" in 3/16" mild steel
Machine screws and nuts — to 1/4"

- NEW ADJUSTABLE CLUTCH MECHANISM
- SMOOTHER, QUIETER HELICAL GEAR TRAIN
- IMPROVED FAN AND BAFFLE SYSTEM
- HIGH TORQUE 4.5 AMP MOTOR

ALL NEW Milwaukee Adjustable clutch mechanism offers optimum torque control by a simple "pull and turn" adjusting ring. Ideally suited for driving machine and sheet metal screws and nuts. Perfect for hubless cast iron soil pipe applications. Once adjusted, uniform tension is maintained when driving screws or nuts of the same size in materials of uniform density. Clutch automatically disengages when screw or nut is set. Powerful 4.5 amp motor with 0 to 1000 rpm speed control offers continuous control from start to finish.

BIT GUIDES FOR 6583-1 ADJUSTABLE TORQUE

Key	Description	Catalog No.	For Use With These Bits and Sockets†	
B1	1/4" Bit Guide	48-32-0250●	J, L1, M1, O1, P1	Non-Mag. Bit Holder, 1/4" Sockets, Extensions
B2	5/16" Bit Guide	48-32-0312	L2, M2, O2, P2, N1	Sockets, Extensions
B3	3/8" Bit Guide	48-32-0375	L3, M3, O3, P3	Sockets, Extensions
C1	6F-8R Bit Guide	48-32-0608	G, H, Q1	Mag. Bit Holders, Bit & Finder
C2	8F-10R Bit Guide	48-32-0810	N2, Q2	5/16" x 2" Long Nut Socket, Bit & Finder
C3	10F-12R Bit Guide	48-32-1012	N3, Q3	3/8" x 2" Long Nut Socket, Bit & Finder
C4	12F-14R Bit Guide	48-32-1214	Q4	Bit & Finder
C5	14F-16R Bit Guide	48-32-1416	Q5	Bit & Finder

●**Standard Equipment.** Also includes Cat. No. 48-32-3050 Non-Magnetic Bit Holder.
†See page 38 for complete bit and socket illustrations and specs.

SPECIFICATIONS

115 volts 60 Cycle AC Only.

Catalog No.	Speed rpm No Load	Bit Shank Size	Spindle Offset	Lgth. (In.)	Net Wgt. (Lbs.)	Shp. Wgt. (Lbs.)
POSITIVE DRIVE Wood Screws						
6543-1 Rev.	0 to 1000	1/4" Hex	3/4"	9 3/4	4 1/2	7
ADJUSTABLE TORQUE Machine Screws and Nuts						
6583-1 Rev.	0 to 1000	1/4" Hex	3/4"	10 1/2	5	7 1/2

NOTE: (Rev.) following Cat. No. indicates reversing motor. All models have lockable trigger switches.

See Steel Carrying Case pg. 9

Type "A" Grease
1/2 lb. can **Cat. No. 49-08-0500**
1 lb. can **Cat. No. 49-08-0800**

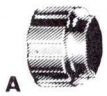
TRIGGER SPEED CONTROL REVERSING SWITCH

Complete operating speed control in forward and reverse is provided for models 6543-1 and 6583-1 by this solid state speed control reversing switch. Increasing or decreasing pressure on the trigger controls the amount of drilling or reversing speed from zero to maximum RPM. Reversing lever, located directly above trigger, is provided with a mechanical interlock to prevent accidental reversing when motor is running.

SCREWDRIVER ACCESSORIES

For Special Screwdrivers and Screwdriver-Nut Runners Described on Pages 36 and 37.

SCREWDRIVER NOSE PIECE ASSEMBLIES

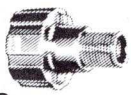


BIT GUIDE HOUSING

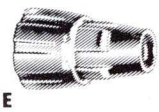
SHORT BIT GUIDE

LONG BIT GUIDE

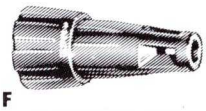
Milwaukee's Exclusive Bit Guides Provide Wobble-Free Screwdriving



BIT HOUSING



LOCATORS



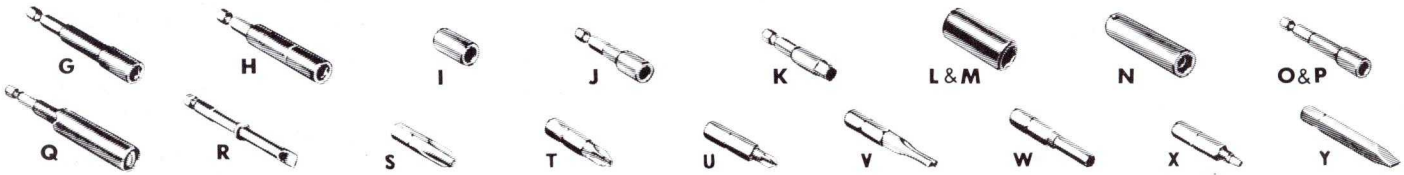
MAGNETIC BIT HOLDER LOCATORS

Milwaukee Locators Provide Wobble-Free Screwdriving — Plus Depth Adjustments

When Ordering, Use Catalog Numbers

Key	Description	Catalog No.	For Use With Driver		
A	Bit Guide Housing	48-32-1000	6543-1		
B1	1/4" Bit Guide	48-32-0250	6543-1	6583-1	6783-1
B2	5/16" Bit Guide	48-32-0312		6583-1	6783-1
B3	3/8" Bit Guide	48-32-0375		6583-1	6783-1
C1	6F-8R Bit Guide	48-32-0608	6543-1	6583-1	6783-1
C2	8F-10R Bit Guide	48-32-0810	6543-1	6583-1	
C3	10F-12R Bit Guide	48-32-1012	6543-1	6583-1	
C4	12F-14R Bit Guide	48-32-1214	6543-1	6583-1	
C5	14F-16R Bit Guide	48-32-1416	6543-1	6583-1	
D	Bit Housing	48-32-2500			6798-1
E1	1/4" Locator	49-26-0250			6798-1
E2	5/16" Locator	49-26-0312			6798-1
E3	3/8" Locator	49-26-0375			6798-1
E4	7/16" Locator	49-26-0600			6798-1
F	Mag. Bit Holder Loc.	49-26-1000			6798-1

SCREWDRIVING ACCESSORIES



When Ordering, Use Catalog Numbers

BIT HOLDERS • SOCKETS • EXTENSIONS • BITS and FINDERS

Key	Description	Size	Catalog No.	For Use With
G	Magnetic Bit Holder		48-32-3025	F or C1
H	2-Pc. Mag. Bit Holder		48-32-3030	F or C1
I	Bit Holder Nose End (for H)		48-32-3035	H
J	Non-Mag. Bit Holder		48-32-3050	E1 or B1
K	1/4" Sq. x 2" Socket Driver		48-32-2050	L-M-N
L1	Hex. Sockets Only Non-Magnetic	1/4"	49-66-3001	K & E1 or B1
L2		5/16"	49-66-3011	K & E2 or B2
L3		3/8"	49-66-3021	K & E3 or B3
M1	Hex Sockets Only Magnetic	1/4"	49-66-3000	K & E1 or B1
M2		5/16"	49-66-3010	K & E2 or B2
M3		3/8"	49-66-3020	K & E3 or B3
M4		7/16"	49-66-3030	K & E4
N1	2" Lg. Hex Nut Magnetic Sockets With Bolt Clearance	1/4"	49-66-3002	K & B2
N2		5/16"	49-66-3012	K & C2
N3		3/8"	49-66-3022	K & C3
O1	1 Pc. Hex Socket Extension Non-Magnetic	1/4"	49-66-3005	E1 or B1
O2		5/16"	49-66-3015	E2 or B2
O3		3/8"	49-66-3025	E3 or B3
P1	1 Pc. Hex Socket Extension Magnetic	1/4"	49-66-3006	E1 or B1
P2		5/16"	49-66-3016	E2 or B2
P3		3/8"	49-66-3026	E2 or B3
Q1	Bit and Finder Combinations (Slotted Screws) 3 1/2" long	6F-8R	48-30-2600	C1
Q2		8F-10R	48-30-2625	C2
Q3		10F-12R	48-30-2650	C3
Q4		12F-14R	48-30-2675	C4
Q5		14F-16R	48-30-2700	C5
R1	Replacement Bits for Bit and Finder Combinations 3 1/2" long	6F-8R	48-30-0750	Q1
R2		8F-10R	48-30-0770	Q2
R3		10F-12R	48-30-0790	Q3
R4		12F-14R	48-30-0800	Q4
R5		14F-16R	48-30-0805	Q5

When Ordering, Use Catalog Numbers

INSERT BITS

Key	Description	Size	Catalog No.	For Use With
S1	Phillips 1" long	#1	48-32-1030	G, H or J
S2		#2	48-32-1050	
S3		#3	48-32-1070	
T1	Posidriv® 1" long	#1	48-32-1120	
T2		#2	48-32-1125	
T3		#3	48-32-1130	
U1	Frearson (Reed & Prince) 1 1/8" long	#1	48-32-1110	
U2		#2	48-32-1115	
V1	Clutch Head Insert Bits 1 1/4" long	3/32"	48-32-1135	
V2		1/8"	48-32-1140	
V3		5/32"	48-32-1145	
V4		3/16"	48-32-1150	
V5		1/4"	48-32-1155	
W1	Hex Socket Insert Bits 1" long	5/64"	48-32-1160	
W2		3/32"	48-32-1165	
W3		7/64"	48-32-1170	
W4		1/8"	48-32-1175	
W5		9/64"	48-32-1180	
W6	Hex Socket Insert Bits 1 5/16" long	5/32"	48-32-1185	
W7		3/16"	48-32-1190	
W8		7/32"	48-32-1195	
W9		1/4"	48-32-1200	
X1	Square Drive (Robertson) 1" long	#1	48-32-1205	
X2		#2	48-32-1210	
X3		#3	48-32-1215	
Y1	Slotted Screw Insert Bits 1 1/2" long	6F-8R	48-32-0050	It is Recommended Slotted Screws Be Driven With Q1 thru Q5
Y2		8F-10R	48-32-0060	
Y3		10F-12R	48-32-0070	
Y4		12F-14R	48-32-0080	
Y5		14F-16R	48-32-0090	

ACCESSORIES FOR PREVIOUS MILWAUKEE 1/4" HEX SHANK DRIVERS

1 15/16" Long Bits For Slotted Head Screws

BIT

FINDER

Screw Size	Bit Only Catalog No.	Finder Catalog No.
6F-8R	48-30-0500	48-30-2025
8F-10R	48-30-0505	48-30-2050
10F-12R	48-30-0510	48-30-2075
12F-14R	48-30-0515	48-30-2100

2" Long Phillips Bits

PHILLIPS BIT

#2 Catalog No. 48-30-1520
#3 Catalog No. 48-30-1500

DRYWALL SCREWDRIVERS

Minimum Offset for Close Quarter Work • Simple, Positive, Depth Adjustment

Ball and Roller Bearings

BOTH WITH

- **Positive Drive Clutch**
- **4.5 Amp Motors**
- **Non-marring Locators**

CATALOG NO. 6747-1 REVERSING

High Speed

CATALOG NO. 6751-1 REVERSING

NEW MODEL 6751-1 drives Drywall Screws to preset depth with record speed.

SPECIFICATIONS 115 Volt 60 Cycle AC Only

Catalog No.	Speed rpm No Load	Bit Shank Size	Spindle Offset	Lgth. (In.)	Net Wgt. (Lbs.)	Shp. Wgt. (Lbs.)
6747-1 Rev.	2500	1/4" Hex.	3/4"	10 1/4	4	7
6751-1 Rev.	4000					

NOTE: All models have lockable trigger switches.

Magnetic Bit Holder and No. 2 Phillips Insert Bit are furnished as standard and are also available as accessories.

For Steel Carrying Case See page 9

For driving screws flush or "dimple sinking" when installing panels on metal or wood studs. Drives to exact depth without marring or damaging panels — makes cementing and final finishing easier. Magnetic bit holder holds drywall screws to insert bit. Reversing switch allows easy removal of screws. Positive lock adjustment provides a wide range of depth settings. New, simplified, one hand adjustment. Push Locking Collar forward and rotate it to right or left. Each 1/4 turn equals 1/64" change in depth. New light-weight nose assembly is permanently lubricated and will not rust or corrode.

ACCESSORIES

1/4" Hex

MAGNETIC BIT HOLDER
Catalog No. 48-32-3025

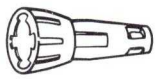
1/4" Hex

PHILLIPS INSERT BITS
#1 Cat. No. 48-32-1030
#2 Cat. No. 48-32-1050

1/4" Hex

INSERT SOCKETS
Magnetic
Cat. No. 49-66-0800
Non Mag.
Cat. No. 49-66-0750

BIT HOUSING
Catalog No. 48-32-2500



LOCATOR SLEEVE FOR MAGNETIC BIT HOLDER
Cat. No. 49-26-1000

2 PC. MAGNETIC BIT HOLDER
Cat. No. 48-32-3030
NOSE END ONLY FOR ABOVE
Cat. No. 48-32-3035

CONVERSION KIT Catalog No. 49-22-1520 Non marring nose assembly fits previous Milwaukee Drywall Screwdrivers. Consists of Bit Housing No. 48-32-2500 and Locator Sleeve No. 49-26-1000.

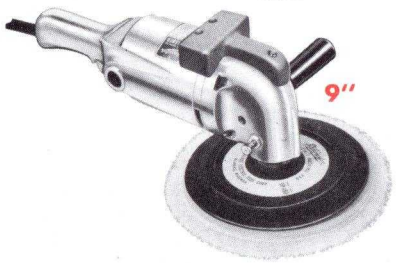
GREASE
Type "A"
1/2 lb. can **CAT. No. 49-08-0500**
1 lb. can **CAT. No. 49-08-0800**

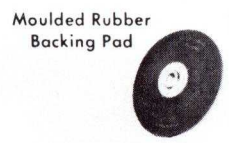
LEATHER HOLSTER
FOR PISTOL DRILLS and SCREWDRIVERS
Fits belts to 3" wide.
CAT. NO. 49-17-0200

POLISHERS

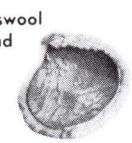
7" and 9" Diameters for Production Work

Ball and Roller Bearings





Moulded Rubber Backing Pad



Lambswool Pad

Polishing Pad

Lambswool Bonnet

With *Exclusive*
SPRING LOADED CLUTCH DRIVE

Assures smooth running — greatly increases gear life — prevents harmful backlash.

Designed for continuous heavy-duty use. Rugged, Powerful — Perfectly balanced.

7" Dia. Cat. No. 5450 Lightweight polisher, 1750 RPM used with standard liquid polishes.

7" Dia. Cat. No. 5530 Lightweight polisher, 2800 RPM for exclusive use with high speed liquid machine polishes.

9" Dia. Cat. No. 5590 More powerful polisher, 1450 RPM. Handles the larger diameter pads and bonnets. Especially recommended for rubbing and compounding.

Catalog No.	Description
49-36-2500	7" dia. Moulded Rubber Pad
49-36-2200	8 1/2" dia. Moulded Rubber Pad
49-40-0160	Disc nut
49-36-1400	7 1/2" dia. Polishing Pad
49-36-1600	9" dia. Polishing Pad
49-36-0500	7" dia. Lambswool Pad
49-36-0700	9" dia. Lambswool Pad
48-48-0500	7" dia. Lambswool Bonnet
48-48-1000	9" dia. Lambswool Bonnet

Type "C" Grease
1 LB. CAN **Catalog No. 49-08-1000**

SPECIFICATIONS

Catalog No.	Disc Dia.	Volts	Speed No Load (RPM)	Lgth. (In.) †	Net Wgt. (Lbs)	Shp. Wgt. (Lbs)
5450	7"	115	1750	14 1/2	9 1/4	16
5530	7"	115	2800	14 1/2	9 1/4	16
5590	9"	115	1450	15 1/4	12 3/4	20

† Over-all length of tool only—not including pad.

Furnished with each polisher is a rubber backing pad, disc nut, polishing pad and one quart of BluShel Polish.

BONNET CLEANING TOOL

Cat. No. 49-80-0050 Quickly fluffs, cleans, buffing pads and bonnets while discs are rotating. Removes glazed surface and loosens packed wool to prolong life. Shp. Wt. 1 lb.

BluShel CAR POLISH

Cleans, polishes, and seals automotive finishes. Leaves a dry, brilliant finish. It is free of harmful chemicals.

Catalog No.	Description	Shp. Wgt. Lbs.
49-43-0050	1 Qt.	3
49-43-0051	12 Qt. Case	33
49-43-0060	1 Gal.	10
49-43-0061	6 Gal. Case	60

IMPACT WRENCHES

• Rugged Design • No Kickback or Twist • Runs Continuously with Constant Torque

Catalog No. 9051
½" SQUARE DRIVE

Square Drive — ½". The finest, most powerful impact wrench of its size for setting, running or removing bolts, nuts, studs and screws . . . also taps, threads, rethreads, drills and reams. Highest quality components include unit thrust bearings for spring and impact mechanism, chrome alloy steel balls and multiple planet gear system. Anvil, hammer and planetary gear cage are forged from selected alloy steel and heat treated for heavy-duty service. Forward and reverse rotation is achieved by turning rear end-cap. Brushes shift automatically for best commutation and efficiency.

IMPACT WRENCH KIT
Catalog No. 9056

Convenient ½" Impact Wrench Kit is complete with compact carrying case and an assortment of ½" hex drive sockets. Catalog No. 9056 ½" Impact Wrench Kit includes: 9051 Impact Wrench, 49-66-3080 ½" Hex Socket, 49-66-3090 9/16" Hex Socket, 49-66-3100 5/8" Hex Socket, 49-66-3110 11/16" Hex Socket, 49-66-3120 ¾" Hex Socket, 49-66-3130 13/16" Hex Socket, 48-55-2580 Steel Carrying Case.

Catalog No. 9070
¾" SQUARE DRIVE

Square Drive — ¾" Perfect balance for fatigue-free use and plenty of power make this tool ideal for steel erection, equipment maintenance and other heavy-duty industrial applications. This tool has the same basic high quality impact mechanism as the Cat. No. 9051 plus an increased torque range.

Catalog No. 9060
⅝" QUICK CHANGE CHUCK

Quick-Change ⅝" hex recess chuck. Perfect for installing utility pole hardware, attaching guy wire clamps and pole steps. Use wood augers with integral ⅝" hex shanks from 7/16" thru 1 1/16". Easy to operate end-cap for reversing rotation allows safe bit removal. Also valuable for general construction, marine installations, boat building and pre-fab construction. Quick-Change chuck makes changing of augers and sockets possible on job site without additional tools.

HEAVY-DUTY IMPACT HEX SOCKETS

Single broached, standard length, Specially made for Impact Wrench. Adaptable to ½" Square Drive.

Size	Catalog No.
7/16"	49-66-3070
½"	49-66-3080
9/16"	49-66-3090
⅝"	49-66-3100
11/16"	49-66-3110
¾"	49-66-3120
13/16"	49-66-3130
⅞"	49-66-3140

IMPACT WRENCH SPECIFICATIONS

Catalog No.	Impacts Per Min.	No Load RPM	Torque Range	Volts	Length	Wt.	Shpg. Wt.
9051	1900	1900	95—130	115	10¼	6¼	9¼
9056 KIT	1900	1900	95—130	115	10¼	13	16
9060	1725	1700	175—250	115	11⅞	10	13
9070	1725	1700	175—250	115	11⅞	10	13

½" SQUARE DRIVE IMPACT WRENCH ACCESSORIES

UNIVERSAL JOINT
No. 48-03-0500

Fits ½" Square Drive and used with Hex Sockets to reach difficult places at various angles . . . also allows clearance around obstructions.

EXTENSION BAR
No. 48-95-5000

Adapts to ½" Square Drive. Provides 5" additional length where required for use with sockets or other accessories.

KEYLESS CHUCK
No. 48-66-0010

Adapts to ½" Square Drive with capacity for accessories with ⅛" to ½" diameter shanks.

QUICK CHANGE CHUCK
No. 48-66-0060

With 7/16" Hex Socket for Screw Driver Bits and hole saws or other accessories with 7/16" Hex Shanks. See page 11 for hole saws.

COLLET CHUCK
No. 48-66-0050

For round shank tools, drills and reamers 3/16" to ⅜" diameter . . . also taps and E-Z outs No. 10 to ½". Two wrenches are included.

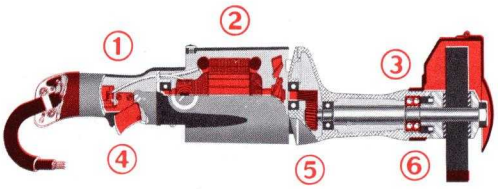
OPEN END WRENCH No. 49-96-4680
Included and used with Collet Chuck No. 48-66-0050

CARRYING CASE FOR 9051 ONLY
No. 48-55-2580

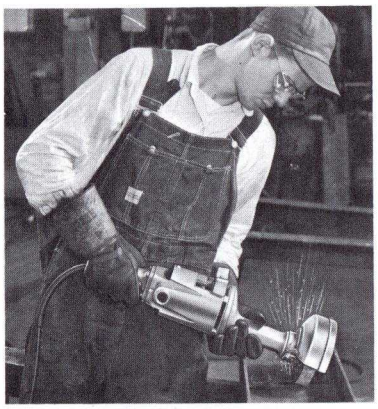
SPECIAL LUBRICANT No. 49-08-0100
For mechanism — 3½ oz. tube.

PORTABLE GRINDERS

Outstanding Features



1. Lightweight Aluminum Alloy Housings
2. Heavy-Duty MILWAUKEE-BUILT MOTOR
3. Adjustable, Shatterproof Steel Guard
4. Fully Enclosed Dustproof Switch
5. Helical-Cut Alloy Steel Gears and Shafts
6. Double Row Oversize Ball Bearings



MILWAUKEE Heavy-Duty Portable Grinders are engineered to give rugged, dependable, trouble-free performance. Here, in this steel fabricating shop, the operator is grinding off welds using 6" model 5240. Ideal balance of the unit makes it easy to handle and reduces fatigue through long periods of use.

NOTE

The maximum safe operating speed shown on the grinding wheels must be greater than the no load speed of the tool.

POWERFUL, HIGH TORQUE GRINDERS

For use in welding shops and heavy industry — prepares surfaces for welding, smooths welds, removes burrs, snags and grinds castings — also for wire brushing, buffing and general grinding. Ruggedly built for continuous service — lightweight and balanced to permit long periods of use. Oversize double row ball bearings provide rigid support for grinding wheel. High velocity air flow keeps motor cool and free of dust and grit. Equipped with adjustable steel wheel guard and coarse grinding wheel. Hinged face plate on guard for quick wheel replacement.

SPECIFICATIONS

Catalog No.	Wheel Size	Hole Dia.	Speed No Load (RPM)	Volts	Lgth. (In.)	Net Wgt. (Lbs.)	Shp. Wgt. (Lbs.)
5200	4" x 1"	½"	6000	115	21⅝	13½	19
5220	5" x 1"	⅝"	4000	115	21¾	15	19
5240	6" x 1"	⅝"	4000	115	22	16½	22

REPLACEMENT GUARD ASSEMBLIES

4" WHEEL GUARD ASSEMBLY
For Model 5200 Grinder
Cat. No. 49-12-0130

5" WHEEL GUARD ASSEMBLY
For Model 5220 Grinder
Cat. No. 49-12-0140

6" WHEEL GUARD ASSEMBLY
For Model 5240 Grinder
Cat. No. 49-12-0150

COARSE GRIT GRINDING WHEELS

Catalog No.	Size (In.)	Hole Dia.	Max. Wheel Speed
49-92-1140	4 x 1	½	9000
49-92-2240	5 x 1	⅝	9000
49-92-3260	6 x 1	⅝	6000

KNOT WIRE BRUSHES

Made of select steel wire. For cleaning steel surfaces and castings, removing rust, scale, file marks.

Catalog No.	Dia. (In.)	Hole Dia.	Wire Size	Max. Wheel Speed
48-52-2210	4	½"	.014	8000
48-52-2310	5	⅝"	.014	8000
48-52-2510	6	½"-⅝"	.014	8000

CLOTH BUFFING WHEELS

For polishing and buffing metal surfaces. Coated with abrasive, can be used for smooth finish grinding or rough polishing.

Catalog No.	Dia. (In.)	Hole Dia.
49-93-0060	4	½"
49-93-0070	5	⅝"
49-93-0090	6	⅝"

1 lb. can Type C Grease.
Cat. No. 49-08-1000

TUCK POINT GRINDER

8" Diameter Wheel

CATALOG No. 5260

Outstanding physical features for the Tuck Point Grinder are the same as noted above for Portable Grinders.

ALL BALL BEARINGS

Powerful, high speed, easy handling grinder for fast clean removal of old or loose mortar. Furnished with 8" x ⅛" abrasive wheel and steel wheel guard for safe operation. All ball bearings — double row ball bearings in forward handle housing provide rigid support for grinding wheel. Comfortable grip.

SPECIFICATIONS

Catalog No.	Wheel Size	Hole Dia.	Speed No Load (RPM)	Volts	Lgth. (ins.)	Net Wgt. lbs.	Shp. Wgt. lbs.
5260	8" x ⅛"	⅝"	4000	115	21	15¼	19

TUCK POINT ABRASIVE WHEELS

Maximum Wheel Speeds 7200 RPM

Cat. No. 49-92-5020 8" x ⅛" x ⅝" hole.
Cat. No. 49-92-5040 8" x 3/16" x ⅝" hole.
Cat. No. 49-92-5060 8" x ¼" x ⅝" hole.

1 LB. TYPE C GREASE
Cat. No. 49-08-1000

Kits and abrasive wheels are adaptable to Portable Grinders Nos. 5220 and 5240.

TUCK POINT GUARD ASSEMBLY
Cat. No. 49-12-0120 Consists of Guard and Spacer.

TUCK POINT GRINDER ACCESSORY KITS

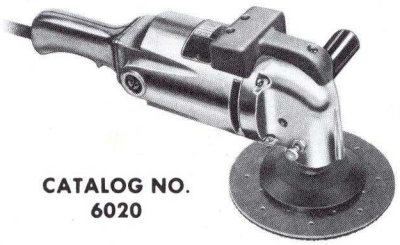
Cat. No. 49-22-6050 Includes wheel guard, spacer unit and 8" x ⅛" x ⅝" hole abrasive wheel.

Cat. No. 49-22-6060 Same as above kit except with 8" x 3/16" x ⅝" hole abrasive wheel.

SANDER-GRINDERS

For Heavy-Duty Automotive and Industrial Use In 7" or 9" Sizes

Ball and Roller Bearings



7" DIAMETER

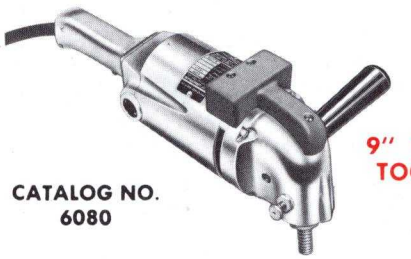
CATALOG NO. 6020

Widely used in auto body shops, garages, by sheet metal fabricators and on farms for sharpening plows and disc harrows. Can be converted from sanding to grinding or wire brushing. Furnished with 7" standard phenolic resin backing disc assembly and disc retaining nut. One each sample 36 and 60 grit 7" diameter sanding disc included.

9" DIAMETER

CATALOG NO. 6060

Specially built for continuous duty service in heaviest type of work. High speed and high torque give best performance under maximum load. Furnished with 9" standard phenolic resin backing disc assembly and disc retaining nut. One each 36 and 60 grit 9" diameter sample sanding disc included.



9" DIAMETER TOOL ONLY

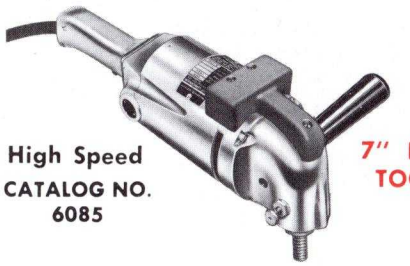
CATALOG NO. 6080

The same powerful sander-grinder as Catalog No. 6060 less disc assembly, and sanding discs. For use with cup wire brushes and flared cup grinding wheels — available as accessories.

9" DIAMETER

CATALOG NO. 6100

Designed expecially for the welder or for concrete surfacing. With the same power and characteristics as Catalog No. 6060 but with 9" x ¼" Flat Rough Reinforced Grinding Disc in place of backing disc assembly and sanding discs. Steel guard No. 49-12-0090 also furnished.



High Speed

CATALOG NO. 6085

7" DIAMETER TOOL ONLY

New 6000 RPM Sander-Grinder, powered by a new MILWAUKEE 2 hp motor. Built for continuous duty in automotive, industrial, welding and concrete surfacing applications. Unit is supplied less disc assembly, hub and sanding discs. Can be used with disc assemblies listed below and accessories on page 43.

. . . With *EXCLUSIVE* **SPRING LOADED CLUTCH DRIVE**

Assures smoother running and prevents harmful backlash shock of heavy or unbalanced grinding wheels to driving mechanism. Greatly increases gear life.

OUTSTANDING FEATURES

- **BALL BEARING MOUNTED ROTOR ASSEMBLY** Is dynamically balanced and vibration free.
- **EXTERNAL BRUSH HOLDERS** Permit inspection and replacement of brushes without disassembling grinder.
- **BUTTON-TYPE SPINDLE LOCK** For easy removal of discs or other accessories. No special tools required.
- **HEAVY-DUTY URETHANE TOOL REST** Absorbs shock . . . prevents damage to housings.
- **REMOVABLE SIDE HANDLE** For use on either side of grinder.
- **LARGE FAN AND EXHAUST PORTS** Direct air over disc, dissipates heat and keeps work area free of dust and grit.

SPECIFICATIONS

Catalog No.	Speed RPM	Disc Dia. (In.)	Volts	HP	Spindle Thread Size	Length (Less Disc) Inches	Net Wgt. (Lbs.)	Shp. Wgt. (Lbs.)
6020	5000	7	115	1½	5/8"-11	15½	13	18
6060		9					13¼	18
6080*		9					12¼	17
6085*	6000	7		2			12¼	17
6100	5000	9		1½			15¼	20

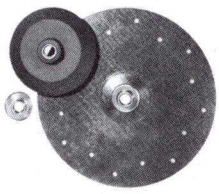
* Less disc assembly and hub.

BACKING DISC ASSEMBLIES

Light, perfectly balanced assemblies provide flexibility for curves and contours. Abrasive discs can be trimmed down to the next smaller diameter to be used with smaller backing discs, affording greater economy.

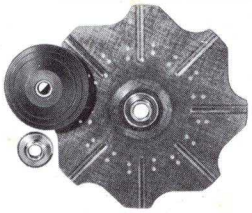
STANDARD PHENOLIC DISC ASSEMBLIES

Same as furnished with Nos. 6020 and 6060



Description	Dia.	Catalog No.	Max. Speed
*COMPLETE ASSEMBLY	7"	49-36-6000	7000
	9"	49-36-6050	7000
DISC ONLY	7"	48-80-6000	7000
	9"	48-80-6050	7000
RUBBER PAD	—	49-36-3500	7000
DISC NUT	—	49-40-0350	—

DISC SAVER PHENOLIC DISC ASSEMBLIES



Description	Dia.	Catalog No.	Max. Speed
*COMPLETE ASSEMBLY	7"	49-36-3600	7000
	9"	49-36-3650	7000
DISC ONLY	7"	48-80-6010	7000
	9"	48-80-6060	7000
RUBBER PAD	—	49-36-3550	7000
DISC NUT	—	49-40-0350	—

*All Disc Assemblies include Disc Nut

DISC NUT CATALOG NO. 49-40-0120

For discontinued Nested Spring Steel Disc Assemblies.

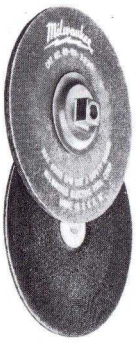
1 LB. TYPE C GREASE Cat. No. 49-08-1000

SANDER-GRINDER ACCESSORIES

REINFORCED GRINDING DISCS
CUP GRINDING WHEELS • WIRE CUP BRUSHES
ABRASIVE SANDING DISCS

Highest Quality for Best Performance

SPECIFICATIONS



FLAT REINFORCED GRINDING DISCS

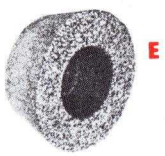
Strong and tough with high safety factor to permit high speed operation. Nylon reinforced to resist breakage from twisting, starting torque or lateral pressure. All types require Guard "B".

	Description			Catalog No.	Max. Speed
	ALUMINUM OXIDE DISCS FOR METAL				
A	**ROUGH**	With 5/8" - 11 Threaded Hub	7" x 1/4"	**49-93-3110**	7750
			9" x 1/4"	**49-93-3230**	6000
	FINISH		7" x 1/4"	**49-93-3170**	7750
			9" x 1/4"	**49-93-3290**	6000
	SILICON CARBIDE DISCS FOR STONE OR CONCRETE				
	5/8" - 11	Threaded Hub	7" x 1/4"	**49-93-3130**	7750
			9" x 1/4"	**49-93-3250**	6000
B	**GUARD**		Fits 7"	**49-12-0080**	—
			Fits 9"	**49-12-0090**	—

CURVED REINFORCED GRINDING DISCS

Nylon reinforced curved grinding discs for grinding welds. Contour shape permits easier accessibility to work surfaces. Same high safety factor as flat reinforced grinding discs. All types require Guard "D".

C	**ROUGH**	With 5/8" - 11 Threaded Hub	7" x 1/4"	**49-93-3120**	8500
			9" x 1/4"	**49-93-3240**	6000
	FINISH		7" x 1/4"	**49-93-3180**	8500
			9" x 1/4"	**49-93-3300**	6000
D	**GUARD**		Fits 7"	**49-12-0100**	—
			Fits 9"	**49-12-0110**	—



FLARED CUP GRINDING WHEELS

Aluminum oxide for all general purpose metal grinding. Resinoid bonded. These wheels are fitted with 5/8"-11 threaded bushing molded integrally for ready mounting.

E	**4" DIA. FOR 7"**	5/8" - 11 Thread	**49-93-5140**	9000
	5" DIA. FOR 9"	5/8" - 11 Thread	**49-93-5220**	7200
F	**GUARD**	For 4" Flared Cup	**49-12-0060**	—
		For 5" Flared Cup	**49-12-0070**	—

ARMOR-CUP GRINDING WHEELS

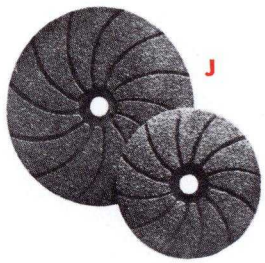
Resinoid bonded. Special fine grit outer rim wears slowly . . . prevents rounded edges for high performance without distortion. Eliminates waste by maintaining a flat grinding surface even under the toughest conditions . . . provides longer usable cup life. 5/8"-11 threaded bushing integrally molded for easy mounting.

G	**ALUMINUM OXIDE ARMOR-CUP FOR METAL**			
	4" DIA. FOR 7"	5/8" - 11 Thread	**49-93-5250**	9000
	5" DIA. FOR 9"	5/8" - 11 Thread	**49-93-5270**	7200
	SILICON CARBIDE ARMOR-CUP FOR STONE OR CONCRETE			
	4" DIA. FOR 7"	5/8" - 11 Thread	**49-93-5260**	9000
	5" DIA. FOR 9"	5/8" - 11 Thread	**49-93-5280**	7200
H	**GUARD**	For 4" Flared Cup	**49-12-0060**	—
		For 5" Flared Cup	**49-12-0070**	—

WIRE CUP BRUSHES

Finest quality crimped and knot wire brushes to give long service life on the toughest cleaning jobs. Ideally suited for cleaning castings, structural steel, sheet metal, stone and concrete.

I	**4" DIA. FOR 7"**			
	30 ga. crimped wire	5/8" - 11 Thread	**48-52-1300**	7000
	24 ga. knot wire	5/8" - 11 Thread	**48-52-1350**	6000
	6" DIA. FOR 9"			
	24 ga. crimped wire	5/8" - 11 Thread	**48-52-1600**	6000
	30 ga. knot wire	5/8" - 11 Thread	**48-52-1650**	6000



ABRASIVE SANDING DISCS

Specially selected extra hard aluminum oxide grits are applied with plastic adhesive to rigid fibre backing for long life . . . will not crack, curl or tear. Special spiral design speeds grinding, cools as it grinds. They are waterproof and can be dipped in gasoline and scrubbed for re-use.

J	**FOR 7" DIA.**	16 Grit	PACKED AND SOLD ONLY IN BOXES OF 10	**48-80-2000**	7000
		24 Grit		**48-80-2050**	7000
		36 Grit		**48-80-2100**	7000
		60 Grit		**48-80-2200**	7000
		80 Grit		**48-80-2250**	7000
	FOR 9" DIA.	16 Grit		**48-80-2500**	7000
		24 Grit		**48-80-2550**	7000
		36 Grit		**48-80-2600**	7000
		60 Grit		**48-80-2700**	7000
		80 Grit		**48-80-2750**	7000

BACKING DISC ASSEMBLIES AND DISCS
Listed On Page 42

NOTE
The maximum safe operating speed shown on the grinding wheels must be greater than the no load speed of the tool.

MISCELLANEOUS

DISC WHEEL HUB ADAPTER
Cat. No. 48-03-1000

For use with depressed center hub wheels with 7/8" diameter hole. Order disc nut 49-40-0120 separately.

1 LB. TYPE C GREASE **Cat. No. 49-08-1000**

DIE GRINDER and STRAIGHT GRINDER

ALL BALL BEARINGS

Die Finishing and Polishing
Removal of Thin Layers of Material
Production Grinding of Small Parts

Durable, Easy to Operate
Ball Bearings Lubricated for Life
Extended Spindle Grips Close to Stones
Powerful Ventilating Fan Keeps Motor Cool

CATALOG NO. 5191
DIE GRINDER

Milwaukee's Die Grinder is designed for the tool and die trade, pattern and model making and other trades requiring precision heavy-duty applications. Internal grinding, deburring and filing are some of the more specific uses. Standard equipment includes a ¼" collet. A ⅛" collet is available as an accessory. The 34,000 RPM no load speed can be used with high strength non-reinforced organic wheels to 1" diameter and with reinforced wheels to 1½" diameter.

CATALOG NO. 5265
STRAIGHT GRINDER

General Purpose Grinding

- **For Use With:**
- **Abrasive Wheels**
- **Rotary Files**
- **Carbide Burrs**

The Milwaukee Straight Grinder's rugged construction coupled with rigid spindle support is ideal for cleaning and deburring castings, finishing welds and heavy-duty filing. Standard equipment includes a ¼" collet. An accessory ⅛" collet is available. The 21,000 RPM no load speed provides ample power and torque for use with non-reinforced organic wheels to 1⅝" diameter and reinforced wheels to 2" diameter. Featured are the automatic shut-off brushes. When brushes reach ¼" the tool will stop, protecting the commutator from damage.

SPECIFICATIONS

Catalog Number	Collet Diameter	Max. Grinding Wheel Dia.		No Load RPM	Volts	Length	Net Weight Lbs.	Shipping Weight Lbs.
		Non-Reinforced Organic	Reinforced					
5191	⅛†-¼ ▲	1"	1½"	34,000	115	13½"	4	6
5265	⅛†-¼ ▲	1⅝"	2"	21,000	115	18⅜"	6¾	9

†Available as accessory only ▲Standard equipment

ACCESSORIES

Catalog Number	Description
48-66-0910*	¼ Collet
49-96-4112*	Collet Wrench
49-96-4115*	Spindle Wrench
48-66-0900	⅛ Collet

*Included as standard equipment

NOTE

These Grinders are not supplied with grinding wheels. Before using any grinding wheel be sure speed shown for that wheel is greater than the no load speed of the tool. Tables of maximum operating speeds for mounted wheels are included in the instructions packed with each new grinder.

TAPPER

For Thru-Holes and Blind Holes • Balanced For Easy Handling • Floating Chuck
Quick Tap Changing • Faster Than Hand Tapping • Automatic Reversing & Depth Gauge

CATALOG NO. 8600

A portable heavy-duty tapper designed for craftsmen, machine builders and the sheet metal trades. Well balanced for easy handling and offering a floating chuck that prevents tap breakage. Automatic reversing, backs tap out of hole at high speed when operator pulls backward . . . no reversing switch needed. Built to handle #8 thru 5/16" taps in cold rolled steel and a variety of non-ferrous materials.

SPECIFICATIONS

Catalog Number	Capacity In Mild Steel	RPM		Volts	Length	Net Weight Lbs.	Shipping Weight Lbs.
		Clockwise	Counter-Clockwise				
8600	5/16"	360	650	115	13⅝"	5¼	7

ACCESSORIES

Catalog Number	Description
48-66-1500▲	Tapper Chuck Assembly
48-86-0110▲	Drift Pin
48-66-6740▲	Chuck Key
49-11-0070▲	Depth Gauge

▲Included as standard equipment

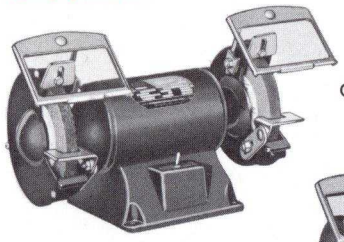
MISCELLANEOUS

Type "A" Grease ½ lb. can **Catalog No. 49-08-0500**
1 lb. can **Catalog No. 49-08-0800**

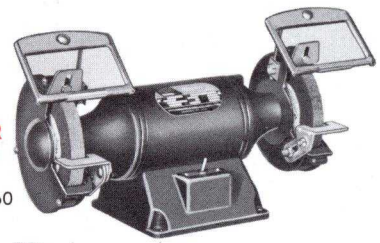
BENCH GRINDERS

AVAILABLE IN 5 SIZES 1/4 • 1/3 • 1/2 • 3/4 • 1 HORSE POWER 6 • 7 • 8 and 10 Inch Wheel Sizes

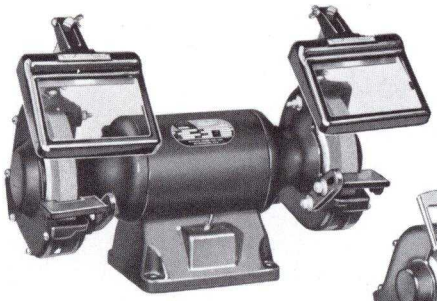
Plastic Eye Shields (Cat. No. 49-62-0100) are furnished as standard equipment. Glass Eye Shields and Illuminated Eye Shields are offered as optional accessories. Shields *must* be used when operating grinders.



¼ H.P. GRINDER
Shown with Optional
Glass Eye Shields
Catalog No. 49-62-0060

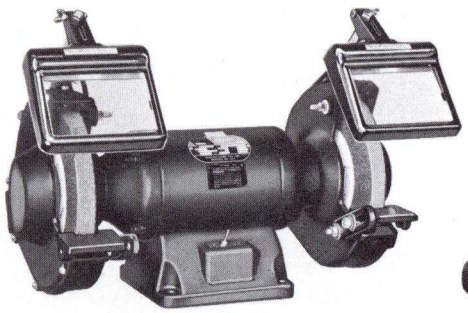


⅓ H.P. GRINDER
Shown with Optional
Glass Eye Shields
Catalog No. 49-62-0060



¾ H.P. GRINDER
Shown with Optional
Illuminated Eye Shields
Catalog No. 49-62-0050

½ H.P. GRINDER
Mounted on Grinder Pedestal
Shown with Optional
Glass Eye Shields
Catalog No. 49-62-0060



1 H.P. GRINDER
Shown with Optional
Illuminated Eye Shields
Catalog No. 49-62-0050

INDUCTION MOTOR UNITS

Precision built, quiet, smooth running and designed for continuous production in factories, machine and welding shops, tool rooms, maintenance departments and garages. Heavy-duty motors — alternating current only — dynamically balanced, with every safeguard against overload. Completely sealed against dirt and grit. Lifetime lubricated ball bearings.

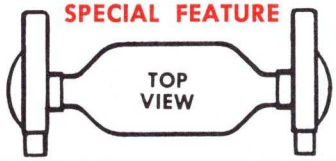
SPECIFICATIONS

Standard equipment includes two balanced, aluminum oxide wheels — one fine and one coarse grit — adjustable tool rests, spark deflectors and plastic eye shields. Pedestal and glass or illuminated eye shields are listed below and are available as accessories. Wheels other than those supplied as standard equipment must be ordered separately.

HP	Catalog No.	Voltages AC 60 cycle	Phase	Speed RPM	Wheel Size	Hole Dia.	Space Between Wheels	Net Wgt. (Lbs.)	Shp. Wgt. (Lbs.)
¼	**4900**	115	1	3450	6"x⅝"†	½"	11½"	22	24
⅓	**4920** **4940** **4960**	115 230 208/220/440	1 1 3	3450	6"x¾"	½"	13½"	27	29
½	**4980** **5000** **5020**	115 230 208/220/440	1 1 3	3450	7"x1"	⅝"	14⅛"	37	40
¾	**5040** **5060**	115/230 208/220/440	1 3	3450	8"x1"	⅝"	16⅜"	57	60
1	**5080** **5100**	115/230 208/220/440	1 3	1725	10"x1"	¾"	17⅛"	82	85

†Replacement wheels are ¾"

SPECIAL FEATURE



BELL TYPE CONSTRUCTION

Clearance in front of motor housing is important when grinding longer pieces.

WHEELS FOR BENCH GRINDERS

NOTE: The maximum safe operating speed shown on the grinding wheels must be greater than the no load speed of the tool. Aluminum Oxide Grinding Wheels are available in coarse, medium and fine grit for all types of grinding. Knot Wire Brushes for removing rust, scale and file marks — made of select steel wires. Brushes have a face width of ¾". Cloth Buffing Wheels for buffing metal surfaces — made of multiple layers of select buffing cloth — securely sewed — can be dipped in an emery grit after coating with glue for finish grinding or rough polishing.

GRINDING WHEELS

	Catalog No.	Size (In.)	Hole Dia	Max. Wheel Speed
COARSE GRIT	**49-92-3140**	6 x ¾	½	6000
	49-92-4200	7 x 1	⅝	5200
	49-92-5300	8 x 1	⅝	4600
	49-92-7200	10 x 1	¾	3750
MEDIUM GRIT	**49-92-3160**	6 x ¾	½	6000
	49-92-4220	7 x 1	⅝	5200
	49-92-5320	8 x 1	⅝	4600
	49-92-7220	10 x 1	¾	3750
FINE GRIT	**49-92-3180**	6 x ¾	½	6000
	49-92-4240	7 x 1	⅝	5200
	49-92-5340	8 x 1	⅝	4600
	49-92-7240	10 x 1	¾	3750

KNOT WIRE BRUSHES

Catalog No.	Dia. (In.)	Hole (Dia.)	Wire Size	Max. Wheel Speed
48-52-2510	6	½"-⅝"	.014	8000
48-52-2610	7	⅝"	.014	5000
48-52-4810	10	¾"	.014	4500

CLOTH BUFFING WHEELS

Catalog No.	Dia. (In.)	Hole Dia.
49-93-0080	6	½"
49-93-0100	7	⅝"
49-93-0110	10	¾"

PLASTIC EYE SHIELDS

Catalog No. 49-62-0100. (pair) These protective eye shields are furnished as standard equipment on all MILWAUKEE Bench Grinders. Easily replaced when pitted. Supplied as a pair. Complete with attaching hardware for any MILWAUKEE Bench Grinder. Shp. Wt. 1 lb. per pair.

ILLUMINATED EYE SHIELD

Catalog No. 49-62-0050. (as shown above on 1 H.P. Grinder) Metal frame holds 2 pieces of 4" x 6" glass . . . top is safety glass . . . underneath, window glass . . . easily replaced when pitted. Double socket with two bulbs eliminates shadow. Rigid support prevents swiveling. Available for ½, ¾, and 1 H.P. bench grinders only. If pair required specify 2 units. Shp. Wt. 4 lbs. each.

GLASS EYE SHIELD

Catalog No. 49-62-0060. (as shown above on ½ H.P. Grinder) Frame holds 3" x 5" Shatterproof glass. Mounting bracket included. Adaptable to all models. Specify 2 units if pair desired. Shp. Wt. 2 lbs. each.

GRINDER PEDESTAL

Catalog No. 49-39-0050. (as shown above) Heavy gray iron castings with tubular steel column. Removable water pot. Adaptable to all models. Height 34". Shp. Wt. 54 lbs.

METAL CUTTING SHEARS

CUT ALL TYPES OF SHEET METAL
COLD ROLLED STEEL • STAINLESS • NON-FERROUS

Ball and Roller Bearings

MILWAUKEE Shears are designed for heavy-duty continuous production use and are engineered for highest efficiency, best cutting versatility and ease in handling. Lightweight, compact and perfectly balanced, these Shears produce maximum constant output power. Tool steel ram holds cutter blade in perfect alignment for fast, accurate cutting. With large bearing surfaces, the ram maintains proper blade clearance for clean cuts and minimum distortion. All Shears are ruggedly built with heat treated gears, hardened shafts, ball and roller bearings, and sturdy aluminum alloy housings.

Ideal For
Heating & Air Conditioning Fabrication
Metal Building Construction
Sheet Metal Fabrication
Industrial Maintenance
Aviation Industry

AVAILABLE IN 4 POPULAR SIZES

OUTSTANDING FEATURES

- High Speed, Accurate Cutting Mechanism
- Simple Blade Adjustments — No Shims
- Blade Design Eliminates Jamming
- Leaves Edges Smooth — Free of Burrs
- No Adjustments for Straight Cuts or Curves
- Cuts Close Curves Either Right or Left
- Clear, Unobstructed Visibility

Tool steel shear blades are easily adjustable. Sheared metal rides smoothly over steel yoke providing high trim cutting efficiency.

16 GAUGE
CATALOG No. 6800

14 GAUGE
CATALOG No. 6810

12 GAUGE
TRIM SHEAR
CATALOG No. 6820

10 GAUGE
TRIM SHEAR
CATALOG No. 6830

SPECIFICATIONS

Catalog No.	Capacity		Cutting Speed Ft./Min.	Minimum Radius	Volts	Net Wt. Lbs.	Shp. Wt. Lbs.
	Steel	Stainless					
6800	16 Ga.	17 Ga.	17	½"	115	5¼	8
6810	14 Ga.	16 Ga.	10	¾"	115	5	7
6820	12 Ga.	14 Ga.	8	¾"	115	8½	11
6830	10 Ga.	12 Ga.	5	1"	115	10	13

STANDARD EQUIPMENT

Also Available as Accessories

Catalog No.	Description	For Catalog Nos.
49-11-0050	Feeler Gauges	6800 6810 6820 6830
49-80-0010	Blade Adj. Screw Tool	6810 6820 6830
49-11-0065	Cutting Angle Gauge	6810 6820 6830
49-96-0060	⅛" Hex Socket Wrench	6800
49-96-0065	9/64" Hex Socket Wrench	6800
49-96-0310	Hex Socket Wrench Set	6810 6820
49-96-0320	Hex Socket Wrench Set	6830
48-44-0070	Shear Blade Set	6800
48-44-0080	Shear Blade Set	6810 6820
48-44-0090	Shear Blade Set	6830
49-13-0020	Scrap Guide	6820

MISCELLANEOUS ACCESSORIES

Catalog No.	Description	For Catalog Nos.
49-08-0500	½ lb. Can "A" Grease	All Models
49-08-0800	1 lb. Can "A" Grease	All Models
49-14-0300	Grease Gun	6810 6820 6830

NIBBLER

FOR FAST ECONOMICAL CUTTING IN STEEL, STAINLESS STEEL, ALUMINUM AND PLASTIC

Ball and Roller Bearings

SHEET METAL WORK • INDUSTRIAL MAINTENANCE • HEATING AND AIR CONDITIONING FABRICATION • METAL BUILDING CONSTRUCTION • AVIATION INDUSTRY

CATALOG NO. 5410

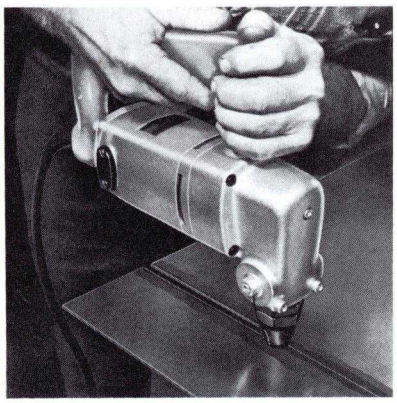
Ideal for maintenance, production and other continuous heavy-duty precision applications. The dependable MILWAUKEE Nibbler can be used in cold rolled steel to 13 gauge and stainless steel to 14 gauge. In addition, the unit can be used for aluminum and plastic with accessory carrier rod. Simple to adjust punch and die accommodates a variety of gauges and offers maximum accuracy. As tool is guided along the cutting line, small crescent shaped pieces of material are punched out . . . leaving a clean undistorted surface. In addition, ¼" cutting radius makes intricate patterns easy to follow. Open front plus adjustable nose piece makes cutting at the stock pile possible, avoiding unnecessary material handling.

OUTSTANDING FEATURES

- BURR & DISTORTION-FREE CUTS
- LIGHT FEED PRESSURE REQUIRED
- SHORT TURNING RADIUS
- START CUTS IN MIDDLE OF SHEET
- TOOL STEEL PUNCH AND DIE
- CONVENIENT SWITCH LOCATION

SPECIFICATIONS

Catalog Number	Capacity		Cutting Speed Ft./Min.	Minimum Radius	Volts	Net Weight lbs.	Shipping Weight lbs.
	Steel	Stainless					
5410	13 Ga.	14 Ga.	3	¼"	115	9¼	13



Milwaukee Nibblers are easy to guide along templates and scribed lines and require only light pressure. Just a single adjustment for material thickness is necessary.

STANDARD EQUIPMENT

Also Available as Replacement Accessories

Catalog Number	Description
49-52-0250	Carrier Rod▲
48-44-0250	Nibbler Punch
48-79-0020	Die
49-96-4720	Open End Wrench
49-96-0300	Hex. Socket Wrench Set
49-96-6500	Nibbler Punch Wrench

▲For use with steel and stainless steel

ADDITIONAL ACCESSORIES

Catalog Number	Description
49-08-0500	½ lb. can "A" Grease
49-08-0800	1 lb. can "A" Grease
49-14-0300	Grease Gun
49-52-0260	Carrier Rod■

■For use with Aluminum and Plastic

"PITTSBURGH LOCK" HAMMER

Fast • Powerful • Rugged • Efficient

Ball and Roller Bearings

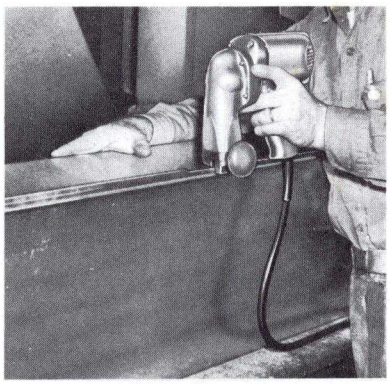
CATALOG NO. 5400

CAPACITY

30 to 22 Gauge Sheet Metal

For Sheet Metal, Heating and Air Conditioning Contractors—closes seams neatly at a rate up to 20 feet per minute. Powerful 115 volt motor—smooth running and easy to use—weight rests on work. Position of handle affords positive control and balance—Auxiliary knob handle for two hand operation on heavy gauge metals. Guides easily along seam on straight runs or curves. Ruggedly designed for high volume, heavy-duty production use—in the shop or on the job.

"PITTSBURGH LOCK"



Specially designed hammer mechanism of hardened tool steel. Closes seams flush and secure. Shoe guide assures proper positioning. Closing duct seams neat and quick is easy for the operator.

SPECIFICATIONS

Catalog Number	Capacity	Ft./Min.	Volts	Net Weight	Net Shipping Weight
5400	30 to 22 Ga.	20' Max.	115	10	14

MISCELLANEOUS

Type "A" Grease ½ lb. can **Catalog No. 49-08-0500**
1 lb. can **Catalog No. 49-08-0800**

ALTERNATORS

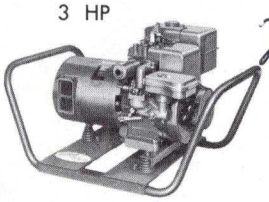
WITH 4 CYCLE AIR COOLED GASOLINE ENGINES

RELIABLE, LOW COST, PORTABLE POWER

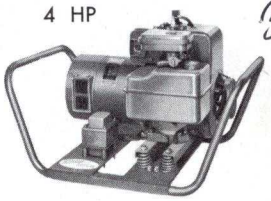
MILWAUKEE Alternators are the most dependable source of portable electric power. Advanced design revolving field alternators offer superior electrical performance with less weight, less maintenance and less cost. Full power output is obtained from stationary coils through solid connections eliminating arcing and sparking. Brushes in alternators ride on smooth slip rings and carry only low control current with practically no brush wear. Nationally recognized engines are used and local service is always available.

- ALL 3600 RPM • 60 CYCLE
- RUGGED — CONVENIENT — ECONOMICAL
- LATEST REVOLVING FIELD ALTERNATOR DESIGN
- COMPACT — LIGHT WEIGHT — HEAVY DUTY
- REACTOR CONTROL REGULATES VOLTAGE ±5%
- SURGE CAPACITY 25% FOR MOTOR STARTING
- THERMAL OVERLOAD PROTECTION • AUTOMATIC RESET
- ENGINES HAVE STELLITE FACED EXHAUST VALVES AND VALVE SEAT INSERTS

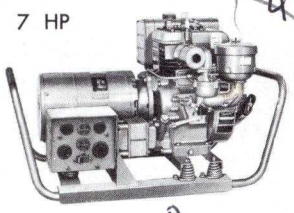
1250 WATT
3 HP



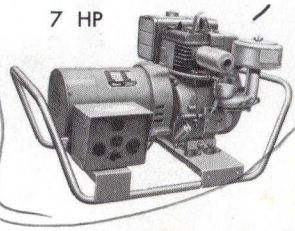
1750 WATT
4 HP



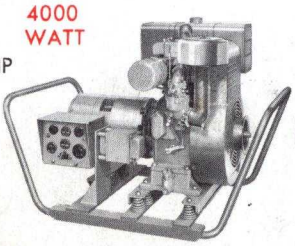
2500 WATT
7 HP



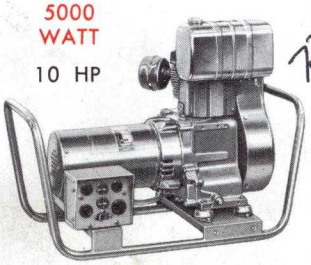
3000 WATT
7 HP



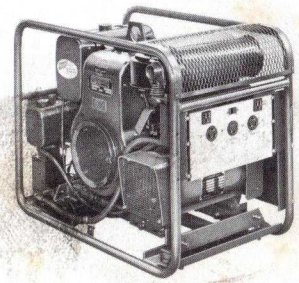
4000 WATT
9 HP



5000 WATT
10 HP



7000 WATT
14 HP



SPECIFICATIONS

Catalog No.	Watts	H.P.	★ Engine 1 cyl.	Start	Fuel Tank (gal.)	Volts AC	Total Amps. Output @ 115V	Output Receptacles: 115V 2 Pole NEMA #5-15R	115V Twist Lock NEMA #L5-30R	230V Twist Lock P&S #7310	Overall Dimensions in Inches: L.	W.	H.	Net Wt. (lbs.)	Shp. Wt. (lbs.)
4370	1250	3	B & S	Recoil	¾	115	10.8	2	—	—	26	15½	14½	87	100
4450	1750	4	B & S	Recoil	¾	115	15.2	2	—	—	26	13⅝	15¾	102	115
4550•	2500	7	B & S	Recoil	1	115/230	21.7	2	1	1	31½	17½	19⅛	144	157
4611•	3000	7	B & S	Recoil	1	115/230	27.0	2	1	1	35	18½	20 3/16	135	155
4770•	4000	9	B & S	Rope	1½	115/230	34.8	2	1	1	33	19¾	22½	215	230
4775•	5000	10	Wis.	Rope	1½	115/230	43.4	2	1	1	35	20½	26	248	276
4790	7000	14	Wis.	Elect.†	2¾	115/230	60.8	2	2	1	31½	19½	24½	385	435

★ Briggs & Stratton or Wisconsin engines with manual choke — 7000 watt has automatic choke.
• Full capacity feature — 115 volt selector switch. † Battery not included — also has rope start.

HOW TO SELECT YOUR MILWAUKEE ALTERNATOR

MILWAUKEE Alternators are built for continuous-duty operation at rated capacity. To determine which Alternator best fits your needs, total the watt ratings (volts x amps = watts) of all equipment (excluding electric motors) to be operated at the same time. The watt rating of the Alternator should at least equal this total. When operating electric motors, add the "starting watts required" shown in the chart at right to insure good starting and to reduce disturbances to other loads. When analyzing the motor loads and required starting watts, determine which loads can be staggered. In most cases, it is impractical to have an alternator large enough to handle total connected load.

Motor H.P. Rating	Approx. Running Watts	Approximate Starting Watts Required: Universal Motors	Repulsion Induction Motors	Capacitor Motors	Split Phase Motors
1/6	275	400	600	850	1200
¼	400	500	850	1050	1700
⅓	450	600	975	1350	1950
½	600	750	1300	1800	2600
¾	850	1000	1900	2600	†
1	1000	1250	2300	3000	†
1½	1600	1750	3200	4200	†
2	2000	2350	3900	5100	†
3	3000	†	5200	6800	†

† Motors of higher horsepower are not generally used.

ALTERNATOR DOLLIES

FOR 1250, 1750 and 2500 WATT UNITS
Net Weight 23 lbs., Shpg. Weight 26 lbs.
Catalog No. 48-83-0070

FOR 4000 WATT UNIT
Net Weight 25 lbs. Shpg. Weight 28 lbs.
Catalog No. 48-83-0080

Consists of tubular steel frame, moulded rubber grip handle and 10" dia. wheels with solid rubber tires.

FOR 3000 and 5000 WATT UNIT
Consists of push handle, rest and wheel assemblies. 12" dia., pneumatic, heavy-duty tires. Wheels have roller bearings. Net Wt. 28 lbs., Shpg. Wt. 32 lbs.
Catalog No. 48-83-0100

FOR 7000 WATT UNIT
Same description as above.
Net Wt. 30 Lbs. Shpg. Wt. 34 Lbs.
Catalog No. 48-83-0110

QUICK REFERENCE LIST

FOR
GENUINE REPLACEMENT PARTS

HEAVY-DUTY TOOLS

For customer convenience, MILWAUKEE provides this list of replacement parts to simplify ordering components for current models listed in this catalog. Genuine MILWAUKEE parts for these and previous models are available from your nearest Authorized Service Station, Branch or Factory as listed on the inside back cover. These parts are exact duplicates of those used in MILWAUKEE ELECTRIC TOOLS and are your assurance of maximum tool life and trouble-free operation. A complete schematic diagram indicating all parts may be obtained by ordering the service bulletin number shown. However, major repairs should be referred to factory trained personnel. **At no time should substitute parts be used.** Always furnish catalog number and serial number of the tool when ordering parts.

● Cat. No.	Service Bulletin No.	Serial No. Start	Armature No.	Field No.	Carbon Brush No.	Cord No.	Brush Cap No.	Switch No.
0101	54-06-0204	376-28592	16-22-1270	18-22-1030	22-18-0360	22-64-0450	23-44-0020	23-66-0510
0102-1	54-06-0351	428-21463	16-22-1280	18-22-1121	22-18-0360	22-64-0660	23-44-0020	23-66-0790
0120	54-06-0404	90-54543	16-22-1120	18-22-1030	22-18-0090	22-64-0170	23-44-0020	23-66-0280
0121	54-06-0503	377-4143	16-22-1251	18-22-1121	22-18-0360	22-64-0450	23-44-0020	23-66-0510
0122-1	54-06-0651	429-5699	16-22-1251	18-22-1121	22-18-0360	22-64-0660	23-44-0020	23-66-0790
0125	54-06-0701	322-3404	16-20-1010	18-20-1000	22-18-0310	22-64-0310	23-44-0020	23-66-0280
0140	54-06-0804	91-7034	16-22-1120	18-22-1030	22-18-0090	22-64-0170	23-44-0020	23-66-0280
0160	54-06-1004	93-3024	16-22-1120	18-22-1030	22-18-0090	22-64-0170	23-44-0020	23-66-0280
0180	54-06-1204	93-8701	16-22-1120	18-22-1030	22-18-0090	22-64-0170	23-44-0020	23-66-0280
0181	54-06-1303	393-1938	16-22-1251	18-22-1121	22-18-0360	22-64-0450	23-44-0020	23-66-0510
0190	54-06-1402	304-10099	16-22-1120	18-22-1030	22-18-0090	22-64-0170	23-44-0020	23-66-0280
0191	54-05-1503	394-2169	16-22-1251	18-22-1121	22-18-0360	22-64-0450	23-44-0020	23-66-0510
0200	54-05-1604	89-9081	16-22-1110	18-22-1030	22-18-0090	22-64-0170	23-44-0020	23-66-0280
0220	54-06-2004	88-65425	16-22-1110	18-22-1030	22-18-0090	22-64-0170	23-44-0020	23-66-0280
0221	54-06-2103	378-2103	16-22-1241	18-22-1121	22-18-0360	22-64-0450	23-44-0020	23-66-0510
0222-1	54-06-2301	430-28370	16-22-1241	18-22-1121	22-18-0360	22-64-0660	23-44-0020	23-66-0790
0225	54-06-2401	316-3052	16-20-1000	18-20-1000	22-18-0310	22-64-0310	23-44-0020	23-66-0280
0565-1	54-05-0110	467-1001	16-22-1221	18-22-1060	22-18-0360	22-64-0660	23-44-0020	23-66-0795
0800	54-08-0203	10-6215	16-42-1040	18-42-1040	22-18-0100	22-64-0170	23-44-0060	23-66-0230
0850	54-08-0402	12-3593	16-42-1040	18-42-1040	22-18-0100	22-64-0170	23-44-0060	23-66-0230
0870	54-08-0603	13-8903	16-42-1040	18-42-1040	22-18-0100	22-64-0170	23-44-0060	23-66-0230
0890	54-08-0652	50-9145	16-42-1040	18-42-1040	22-18-0100	22-64-0170	23-44-0060	23-66-0230
1000	54-08-1052	17-85272	16-42-1040	18-42-1040	22-18-0100	22-64-0170	23-44-0060	23-66-0230
1000-1	54-08-1076	126-32055	16-42-1040	18-42-1141	22-18-0100	22-64-0380	23-44-0060	23-66-0487
1100	54-08-2103	14-73340	16-42-1210	18-42-1040	22-18-0100	22-64-0170	23-44-0060	23-66-0230
1100-1	54-08-2126	133-37742	16-42-1210	18-42-1141	22-18-0100	22-64-0380	23-44-0060	23-66-0487
1105-1	54-08-2250	458-1001	16-42-1410	18-42-1040	22-16-0250	22-64-0385	23-44-0120	23-66-0751
1120	54-08-2141	306-3001	16-40-1030	18-40-1000	22-18-0280◈	22-64-0310	23-44-0020	23-66-0230
1200	54-08-2203	54-14985	16-42-1210	18-42-1040	22-18-0100	22-64-0170	23-44-0060	23-66-0230
1200-1	54-08-2226	134-15815	16-42-1210	18-42-1141	22-18-0100	22-64-0380	23-44-0060	23-66-0487
1250-1	54-08-1080	459-1001	16-42-1400	18-42-1200	22-16-0250	22-64-0385	23-44-0120	23-66-0751
1600	54-10-0503	108-37796	16-62-1000	18-62-1000	22-18-0170	22-64-0170	23-44-0065	23-66-0190
1600-1	54-10-0525	109-17265	16-62-1140	18-62-1110	22-18-0170	22-64-0170	23-44-0065	23-66-0190▲
1620-1	54-10-0543	343-4041	16-62-1140	18-62-1110	22-18-0170	22-64-0170	23-44-0065	23-66-0190▲
1650	54-10-2004	117-24987	16-62-1010	18-62-1000	22-18-0170	22-64-0170	23-44-0065	23-66-0190
1650-1	54-10-2026	142-16466	16-62-1150	18-62-1110	22-18-0170	22-64-0170	23-44-0065	23-66-0190▲
1675-1	54-10-4002	413-14429	16-62-1165	18-62-1120	22-18-0450	22-64-0620	23-44-0130	23-66-0751
1700	54-12-1024	62-12779	16-82-1420	18-82-1110	22-18-0115	22-64-0080	23-44-0081	23-66-0190
1700-1	54-12-1042	131-1136	16-82-1421	18-82-1110	22-18-0115	22-64-0080	23-44-0081	23-66-0190□
1750	54-12-2023	63-4350	16-82-1430	18-82-1110	22-18-0115	22-64-0080	23-44-0081	23-66-0190
1750-1	54-12-2033	130-1782	16-82-1810	18-82-1070	22-18-0115	22-64-0080	23-44-0081	23-66-0190□
1850	54-12-3021	66-4910	16-82-1430	18-82-1110	22-18-0115	22-64-0080	23-44-0081	23-66-0190
1850-1	54-12-3032	128-3012	16-82-1810	18-82-1070	22-18-0115	22-64-0080	23-44-0081	23-66-0190□
2400-1	54-12-6050	171-1001	16-82-1231	18-82-1070	22-18-0055	22-64-0070	23-44-0030	23-66-0190□

● For Drill Chucks and Chuck Keys, see page 9.

◈ Upper Brush Only. For Lower Brush, order 22-18-0290.

▲ For Reversing Toggle Switch, order 23-66-0198.

□ For Reversing Toggle Switch, order 23-66-0340.

Continued

Continued

● Cat. No.	Service Bulletin No.	Serial No. Start	Armature No.	Field No.	Carbon Brush No.	Cord No.	Brush Cap No.	Switch No.
3940	54-16-2041	161-2023	16-82-1220	18-82-1070	22-18-0055	22-64-0065	23-44-0030	–
4030	54-16-3020	345-1001	16-82-1770	18-82-1070	22-18-0055	22-64-0065	23-44-0030	–
4035	54-16-3040	346-1001	16-82-1770	18-82-1070	22-18-0055	22-64-0065	23-44-0030	–
4250-1●	54-14-1002	298-2304	16-42-1210	18-42-1040	22-18-0100	22-64-0060	23-44-0060	–
4260-1●	54-14-2002	299-1705	16-82-1231	18-82-1070	22-18-0055	22-64-0530	23-44-0030	–
4280-1	54-14-3001	301-1534	16-82-1231	18-82-1070	22-18-0055	22-64-0530	23-44-0030	–
4290-1	54-14-4000	347-1001	16-82-1781	18-82-1070	22-18-0055	22-64-0530	23-44-0030	–
4295-1	54-14-4100	348-1001	16-82-1781	18-82-1070	22-18-0055	22-64-0530	23-44-0030	–
5191	54-22-5010	441-1001	16-12-0010	18-12-0010	22-18-0480	22-64-0710	–	23-66-0895
5200	54-22-2038	74-3698	16-82-1660	18-82-1110	22-18-0260	22-64-0090	23-44-0065	23-66-0250
5220	54-22-3107	75-6706	16-82-1450	18-82-1110	22-18-0260	22-64-0090	23-44-0065	23-66-0250
5240	54-22-4107	76-5856	16-82-1450	18-82-1110	22-18-0260	22-64-0090	23-44-0065	23-66-0250
5265	54-22-5000	448-1001	16-22-1300	18-22-1180	22-18-0485	22-64-0705	31-12-0090	23-66-0900
5300	54-24-3506	342-21060	16-62-1130	18-62-1100	22-18-0330	22-64-0410	23-44-0100	23-66-0490
5350	54-24-3004	389-9885	16-42-1360	18-42-1200	22-18-0100	22-64-0180	23-44-0060	23-66-0580
5360	54-24-2021	38-3100	16-42-1170	18-42-1040	22-18-0100	22-64-0170	23-44-0060	23-66-0230
5390	54-24-1504	422-20699	16-22-1290	18-22-1160	22-18-0410	22-64-0450	23-44-0060	23-66-0510
5392	54-24-1550	456-1001	16-22-1290	18-22-1160	22-18-0410	22-64-0450	23-44-0060	23-66-0920
5400	54-24-7006	107-11150	16-22-1000	18-22-1030	22-18-0090	22-64-0170	23-44-0020	23-66-0160
5410	54-27-0100	447-1001	16-22-1310	18-22-1190	22-18-0485	22-64-0715	31-12-0090	23-66-0900
5450	54-32-1008	100-22449	16-62-1045	18-62-1035	22-18-0175	22-64-0090	23-44-0100	23-66-0160
5530	54-32-1103	140-4028	16-62-1035	18-62-1035	22-18-0175	22-64-0090	23-44-0100	23-66-0160
5590	54-32-1218	47-9416	16-82-1180	18-82-1110	22-18-0260	22-64-0090	23-44-0065	23-66-0250
5610	54-37-0101	451-1221	16-62-1180	18-62-1101	22-18-0440	22-64-0380	23-44-0130	23-66-0860
5650	54-37-0202	452-2367	16-62-1170	18-62-1170	22-18-0440	22-64-0380	23-44-0130	23-66-0860
6000	54-38-1002	285-4288	16-42-1310	18-42-1130	22-18-0090	22-64-0220	23-44-0060	23-66-0380
6020	54-38-2019	49-51010	16-82-1710	18-82-1180	22-18-0260	22-64-0090	23-44-0065	23-66-0250
6060	54-38-3109	48-106488	16-82-1710	18-82-1180	22-18-0260	22-64-0090	23-44-0065	23-66-0250
6085	54-38-3200	461-1001	16-82-1715	18-82-1185	22-18-0055	22-64-0072	23-44-0030	23-66-0250
6200	54-40-2503	151-12774	16-82-1280	18-82-1085	22-18-0055	22-64-0095	23-44-0030	23-66-0300
6250	54-40-3003	281-26772	16-22-1190	18-22-1121	22-18-0270	22-64-0220	23-44-0020	23-66-0310
6280	54-40-3103	334-5182	16-22-1190	18-22-1121	22-18-0270	22-64-0220	23-44-0020	23-66-0310
6293	54-40-1814	309-6160	16-62-1050	18-62-1050	22-18-0300	22-64-0340	–	23-66-0430
6320	54-40-1502	176-6394	16-82-1290	18-82-1085	22-18-0095	22-64-0080	23-44-0050	23-66-0500
6331	54-40-1842	349-7670	16-62-1100	18-62-1050	22-18-0300	22-64-0340	–	23-66-0430
6360	54-40-1512	177-8633	16-82-1300	18-82-1085	22-18-0095	22-64-0080	23-44-0050	23-66-0500
6370	54-40-2003	368-6101	16-82-1801	18-82-1201	22-18-0095	22-64-0430	23-44-0050	23-66-0500
6400	54-40-1522	178-8327	16-82-1310	18-82-1085	22-18-0095	22-64-0080	23-44-0050	23-66-0500
6505*	54-40-4102	335-4212	16-42-1340	18-42-1180	22-18-0100	22-64-0170	23-44-0060	23-66-0230
6510*	54-40-4205	284-183656	16-42-1170	18-42-1120	22-18-0100	22-64-0380	23-44-0060	23-66-0482
6511*	54-40-4250	460-1001	16-42-1420	18-42-1220	22-16-0250	22-64-0385	23-44-0120	23-66-0484
6543-1	54-42-0300	469-1001	16-22-1295	18-22-1160	22-18-0360	22-64-0660	23-44-0020	23-66-0790
6583-1	54-42-0400	470-1001	16-22-1295	18-22-1160	22-18-0360	22-64-0660	23-44-0020	23-66-0790
6747-1	54-42-5150	453-1001	16-22-1295	18-22-1160	22-18-0360	22-64-0660	23-44-0020	23-66-0810
6751-1	54-42-0200	468-1001	16-22-1290	18-22-1160	22-18-0360	22-64-0660	23-44-0020	23-66-0810
6783-1	54-42-0350	471-1001	16-22-1295	18-22-1160	22-18-0360	22-64-0660	23-44-0020	23-66-0790
6798-1	54-42-5500	450-1001	16-22-1295	18-22-1160	22-18-0360	22-64-0660	23-44-0020	23-66-0790
6800	54-44-0100	220-1001	16-22-1106	18-22-1030	22-18-0090	22-64-0220	23-44-0060	23-66-0310
6810	54-44-0200	444-1001	16-12-0010	18-12-0010	22-18-0480	22-64-0710	–	23-66-0895
6820	54-44-0300	445-1001	16-22-1310	18-22-1190	22-18-0485	22-64-0715	31-12-0090	23-66-0900
6830	54-44-0400	446-1001	16-22-1310	18-22-1190	22-18-0485	22-64-0715	31-12-0090	23-66-0900
8600	54-47-0100	440-1001	16-12-0020	18-12-0020	22-18-0490	22-64-0725	–	23-66-0905
9051	54-26-1300	466-1001	16-42-1355	18-42-1195	22-16-0260	22-64-0425	–	23-66-0575
9060	54-26-1400	463-1001	16-42-1365	18-42-1205	22-16-0265	22-64-0425	–	23-66-0585
9070	54-26-1500	462-1001	16-42-1365	18-42-1205	22-16-0265	22-64-0425	–	23-66-0585

★ For Sawzall Blade Clamp, order 42-68-0073 --- Blade Clamp Screw, 06-75-2400 --- Socket Wrench, 49-96-0070.

● For Drill Chucks and Chuck Keys, see page 9.

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Skokie, Ill. 60076
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Cleveland, Ohio 44125
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Dallas, Texas 75247
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N.J. 201 622-7752

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Phila. 215 528-6771

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Phoenix, Arizona 85014

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Boise, Idaho 83704

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Indianapolis, Indiana 46204

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Cedar Rapids, Iowa 52404

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Davenport, Iowa 52802

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1808 Delaware Street
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Wichita, Kansas 62714

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Turner Electric Company
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P. M. Electric Company, Inc.
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St. Louis, Missouri 63139

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Stewart's Electric Motors, Inc.
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Las Vegas, Nevada 89102

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Schenectady, New York 12304

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Solvay, New York 13209

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Charlotte, North Carolina 28202

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Dayton, Ohio 45403

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Hammond Electric Co.
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Portland, Oregon 97209

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Snyder Electric Company
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San Juan, Puerto Rico 00920

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Warwick, Rhode Island 02888

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Southern Electric Co.
812 Porter Street
Memphis, Tennessee 38126

Allied Electric Motor Co., Inc.
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Nashville, Tennessee 37210

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G. E. Jones Electric Co., Inc.
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Amarillo, Texas 79105

I-T-S Rentals Inc.
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Houston, Texas 77003

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1465 South Second West Street
Salt Lake City, Utah 84115

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Caddell Electric Co.
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Norfolk, Virginia 23504

Roy's Electric Motor Service, Inc.
3201 Norfolk Street
Richmond, Virginia 23230

Lloyd Electric Company, Inc.
521 West Salem Ave.
Roanoke, Virginia 24016

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Spokane, Washington 99210

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Yakima, Washington 98902

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103 Clendenin Street
Charleston, West Virginia 25301

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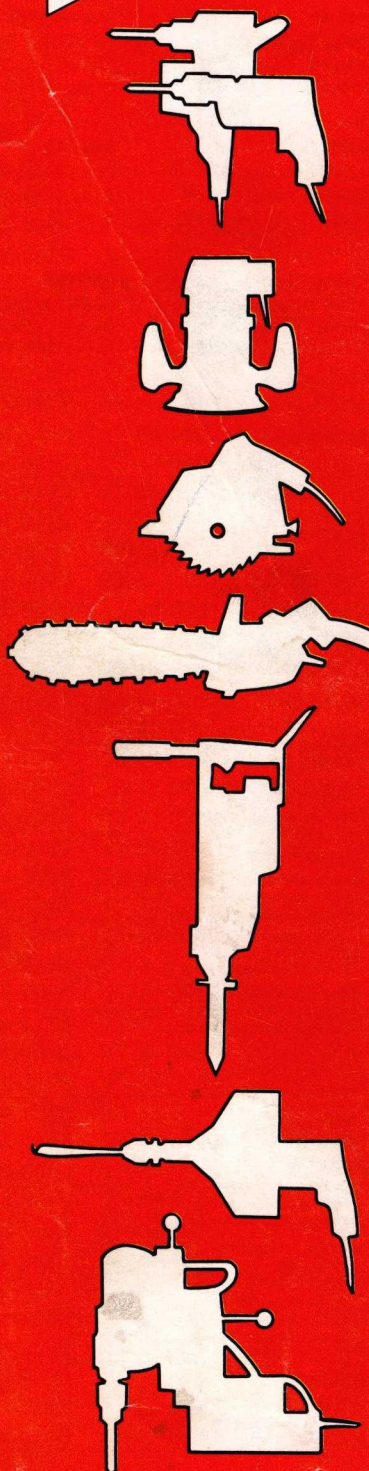
MILWAUKEE ELECTRIC TOOL (CANADA) LTD., 383 Midwest Road, Scarborough, Ontario

Milwaukee



MILWAUKEE ELECTRIC
TOOL CORPORATION
13135 WEST LISBON RD.
BROOKFIELD, WI 53005

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